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AU Bulletin

The American University
Washington, D.C.

Reference Desk Copy





The AU Bulletin:

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Information as of
July 1974

FEB 5 1975

1974–1975 Academic Calendar

<i>September 9</i>	Fall Semester Classes Begin
<i>November 28–30</i>	Thanksgiving Holidays
<i>December 21</i>	End of Fall Semester
<i>January 20</i>	Spring Semester Classes Begin
<i>February 17</i>	Washington's Birthday Holiday*
<i>March 9–16</i>	Spring Vacation
<i>May 10</i>	Spring Semester Ends
<i>May 18</i>	Sixtieth Annual Commencement
<i>May 19–June 20</i>	First Five Week Summer Session
<i>June 23–July 25</i>	Second Five Week Summer Session
<i>July 28–August 29</i>	Third Five Week Summer Session
<i>May 19–July 3</i>	First Seven Week Summer Session
<i>July 7–August 22</i>	Second Seven Week Summer Session

*The University in keeping with Federal government policy, will observe Public Law 90-363 "Monday Holiday Law" which became effective January 1, 1971.

1974 CALENDAR

JANUARY 1974

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1975 CALENDAR

JANUARY 1975

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DECEMBER 1975

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Correspondence Directory

<i>Admission</i>	Office of Admissions, Financial Aid, and Veterans Affairs, Programs and Services, Asbury Building
<i>Transfer Student Services</i>	Office of Admissions, Financial Aid, and Veterans Affairs, Programs and Services, Asbury Building
<i>Housing</i>	Director of Residential Life, McDowell Hall
<i>Scholarships and Loans</i>	Office of Admissions, Financial Aid, and Veterans Affairs, Programs and Services, Asbury Building
<i>Part-time Employment</i>	Director, Career Development Center, Mary Graydon Center
<i>Counseling</i>	Director, Counseling Center, Mary Graydon Center
<i>Program Information</i>	Office of the Dean, the respective college or school
<i>Records and Transcripts</i>	Registrar, Asbury Building
<i>International Student Advisor</i>	International Student Office, Mary Graydon Center
<i>Financial Transactions</i>	Office of Student Accounts, Leonard Center
<i>To complete above addresses, write:</i>	The American University Massachusetts and Nebraska Avenues, N.W. Washington, D.C. 20016

For additional information, phone, write or visit:

Office of Admissions, Financial Aid, and Veterans Affairs,
Programs and Services, Asbury Building
The American University
Massachusetts and Nebraska Avenues, N.W.
Washington, D.C. 20016
Telephone: (202) 686-2000

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Accounting	See School of Business Administration
Art Education	See Art (CAS)
Computer Science	See Mathematics and Statistics (CAS)
Computer Systems	See School of Business Administration, Center for Technology and Administration (CPA)
Correctional Administration	See Center for the Administration of Justice (CPA)
Dance	See Performing Arts (CAS)
Earth Science	See Chemistry (CAS)
English	See Literature (CAS)
English for International Students	See English Language Institute (CCE)
Environmental Systems Management	See Center for Technology and Administration (CPA)
Finance	See School of Business Administration
General Studies	See College of Continuing Education
Health	See Physical Education (CAS)
International Business	See School of Business Administration
International Communication	See School of International Service (CPA)
Journalism	See Communication (CAS)
Language and Area Studies	See School of International Service (CPA), Language and Foreign Studies (CAS)
Management Information Systems	See Center for Technology and Administration (CPA)
Marketing	See School of Business Administration
Medical Technology	See Interdepartmental Science (CAS), Biology, (CAS)
Microbiology	See Biology (CAS)
Music Education	See Music (CAS)
Operations Analysis	See School of Business Administration
Operations Research	See Center for Technology and Administration (CPA)
Personnel	See School of Business Administration
Public Policy	See School of Government and Public Administration (CPA)
Public Relations	See College of Continuing Education, Communication (CAS)
Real Estate and Urban Development	See School of Business Administration
Science Education	See Education (CAS)
Theatre	See Performing Arts
Transportation	See School of Business Administration
Urban Affairs	See School of Government and Public Administration (CPA)

Introduction

Maximum Freedom and High Standards

EDUCATION AT THE AMERICAN UNIVERSITY is based upon a heritage of flexibility—a readiness to depart from traditional patterns when change is necessary. The University seeks new roads to learning which offer maximum freedom of choice to the student while maintaining high academic standards. A private institution, The American University enjoys the freedom to experiment as it recognizes an obligation to lead in the search for education firmly based on the past and relevant to the present. The American University intends to instill in its students an understanding of man and his environment, a desire to contribute to society, and a determination to improve the quality of life.

The traditional academic disciplines are maintained by The American University, and at the same time learning can be enriched through interdisciplinary courses which emphasize the interrelationships among the disciplines.

The American University is an urban university where students encounter at first hand the problems and the opportunities of modern society. Because the University is located in Washington, its students are exposed to an environment which President John F. Kennedy characterized as "a city devoted to the making of history and to the conduct of the public's business."

History

The American University was founded as a graduate school of history and public affairs by Methodist Bishop John Fletcher Hurst. It was chartered by Congress in 1893, was officially dedicated in 1914, and awarded its first degrees in 1916. Although 81 years old, The American University is a young university, having experienced its greatest growth during the last two decades. Enrollment and number of degrees have increased steadily. The first class, in 1914, numbered only 28; in the Fall of 1973 almost 13,500 students were enrolled from fifty states and eighty foreign countries. In 1916, The American University conferred two degrees at its first commencement; in 1973, the University awarded degrees to 2,483 students.

There has been a corresponding growth in the number of schools and colleges as the University has responded to educational demands. In 1925, an undergraduate program was begun with establishment of the College of Liberal Arts, now the College of Arts and Sciences. Subsequent years saw the establishment, in chronological order, of the Washington College of Law (1949), the School of Business Administration (1955), the School of Government and Public Administration (1957), the School of International Service (1958), the College of Continuing Education (1964), the Lucy Webb Hayes School of Nursing (1965), and the College of Public Affairs (1972).

Location

The American University's sixty-six-acre campus shares the natural landscape of the highest land in the Washington area with a residential area that is equally supportive of rolling, spacious lawns, shaded, sometimes wooded land, celebrated by the color of Washington's flowering seasons. Tree-shaded avenues lead, less than a half-hour's drive, into the hub of the political, governmental, and cultural activity of the city.

The fine arts notably mark the cultural milieu of Washington by way of numerous galleries. The scope of appeal ranges from viewing in the many one-room marts to the vast collections of the galleries of the Smithsonian Institution, of which the National Gallery of Art is the best known. All six of the Smithsonian Institution's galleries, as well as Washington's own Corcoran Gallery of Art, offer services and programming to inform and inspire. There are galleries to appeal to interests in the Orient, Africa, in textiles, in crafts, in the total breadth of a world-wide cultural heritage.

The performing arts pulsate through the capital city by way of film, theatre, dance, symphony, all in a staccato of traditional, contemporary, experimental styles. The Kennedy Center for the Performing Arts is the official crown, but all the performing arts are nurtured as well in a host of established theatres, semi-professional companies, outdoor pavillions, studio film theatres.

Physical Facilities

There are 14 classroom buildings, five residence halls, and an interdenominational religious center, in addition to various administrative facilities on the campus.

Arts Center

Two units of a three-unit projected Arts Center have been completed—the Watkins Art Building contains studios, lecture rooms, and graphic arts workshops; the Kreeger Music Building provides teaching studios, practice rooms, and a recital hall. The final unit of the Arts Center will house a new theatre which together with the existing Woods-Brown Amphitheater will provide stages for campus productions and convocations.

University Library

The University Library contains 383,000 catalogued items and receives 7,000 periodicals. Included are excellent pre- and post-World War I materials, League of Nations and United Nations documents, the Peace Society Library, the Artemus Martin Collection of Rare Materials on Mathematics, the Friedrich Collection on Economics, the Franklin Collection on pre- and post-World War II Germany, and a fine collection of European diplomatic papers. The Library also has on microfilm the complete card catalog of the Tokyo Bunko Oriental Library of the National Diet Library and the University of Tokyo.

A listing of the Library's serial holdings is available at the Reference Desk.

Materials not available in the University Library may be obtained for faculty members and graduate students through the inter-library loan service.

The American University is a member of the Consortium of Universities of the Metropolitan Washington Area (embracing five universities and three colleges). Therefore, an undergraduate or graduate student enrolled in a Consortium institution may apply at that institution for a library card, valid for the time the student is enrolled in the course.

A ten-million-dollar campaign for a new Library and Learning Resource Center is underway. The planned library is designed to preserve the campus environment of green and open space, and it is targeted to specific educational needs, taking into account varied and extensive resources available to scholars and students in the Washington area. It is designed to accommodate 900,000 books and periodicals plus 60,000 microfilm reels, audio tapes, films, and video tapes. It will also include individual carrels, lounge seating, and other modern facilities.

Technical Facilities

The language laboratory in the Asbury Building can serve more than 100 students simultaneously. Dial-Access facilities have been installed in a number of buildings and the residence halls as well as in the student lounge in the Department of Language and Foreign Studies. Students may listen to music, guest speakers, or classroom lectures in addition to language tapes. Dial-Access operates 24 hours a day.

Almost all buildings on campus have closed-circuit television capability for conferences,

teacher training, and production and broadcasting classes. Radio and television production and broadcast studios and the campus radio station, WAMU-AM and WAMU-FM, are located in the Broadcast Center. The FM transmitter permits a 50-mile broadcast radius.

The Computation Center serves the computer research and instructional needs of both faculty and students. It is supported by an I.B.M. 370/145 computer system to which the Computation Center has access via a remote job-entry input/output unit. In addition, several time-sharing terminals are available. Languages used at the Computation Center include BASIC, COBOL, FORTRAN, and PL/1. Each semester, members of the Computation Center staff offer informal non-credit courses in selected computer languages as well as seminars in those software package programs available at the Center. New acquisitions, as well as announcements of courses, are promulgated to faculty, staff, and students through a monthly newsletter.

Recreational Facilities

Most of the University's recreational facilities are located in Leonard Center where students enjoy billiards, bowling, sauna baths, swimming, and the use of a gymnasium. Outdoor recreational facilities include eight newly surfaced tennis courts and a standard regulation track.

Faculty 1973-74

Full-time 400

Part-time 419

Of the full-time teaching faculty, some 80 per cent hold earned doctorates. Most of the 419 part-time faculty are specialists within the professional community in the Washington metropolitan area and teach at the University in fields related to their professions.

Accreditation

The American University is accredited by the Middle States Association of Colleges and Secondary Schools and the University Senate of The Methodist Church. It is a member of the Association of American Colleges, the Association of Urban Universities, the Association of University Evening Colleges, the National Intercollegiate Athletic Association, and is approved by the American Association of University Women. A charter member of the Council of Graduate Schools in the United States, the University is also a member of the Midwest Conference on Graduate Study and Research.

The School of Business Administration is a member of the Middle Atlantic Association of Colleges of Business Administration and a charter member of the American Assembly of the American Association of Collegiate Schools of Business.

The Washington College of Law is a member of the Association of American Law Schools and is approved by the American Bar Association.

The Department of Education in the College of Arts and Sciences is a member of the American Association of Colleges for Teacher Education and is accredited by the National Council for Accreditation of Teacher Education in both elementary and secondary areas.

The Department of Music, College of Arts and Sciences, is a member of the National Association of Schools of Music.

The Department of Chemistry, College of Arts and Sciences, is accredited by the American Chemical Society.

The Department of Psychology, College of Arts and Sciences, is accredited by the American Psychological Association.

The School of Nursing is accredited by the National League of Nursing and is approved by the Nurses Examining Board of the District of Columbia.

Enrollment

The student body of the University is composed of students from all 50 states and approximately 80 foreign countries. In the 1973-74 academic year, full-time undergraduates numbered 5,089 (including 151 Washington Semester students), and part-time undergraduates numbered 994. A total of 3,320 enrolled for full-time and part-time graduate study, and more than 4,000 students attended on a non-degree basis, either on the campus or at various metropolitan Washington off-campus locations.

Degrees Conferred

<i>School or College</i>	<i>Associate</i>	<i>Bachelor's</i>	<i>Master's</i>	<i>Ph.D.</i>	<i>Ed.D.</i>	<i>J.D.</i>	<i>Total</i>
Arts and Sciences, College of	7	733	317	45	18		1,120
Business Administration, School of		175	144	19			338
Continuing Education, College of	17	27	82				126
Law, Washington College of						204	204
Nursing, School of		12					12
Public Affairs, College of							
Admin. of Justice, Center for the	100	70	18				188
Gov. and Public Admin., School of		225	81	23			329
International Service, School of		97	63	14			174
Technology and Admin., Center for			114				114
Other		1	1				2
Total	124	1,340	820	101	18	204	2,607

Alumni Association

The Alumni, in excess of 24,000, represent The American University in all 50 United States and in many foreign countries.

Through the Annual Alumni Fund, alumni give support to the University and offer scholarships for undergraduate and graduate students. The area chapters in major cities and groups of alumni with special interests in common provide a channel for student recruiting, job placement assistance, continuing education with visiting faculty, and fellowship. Through elected officers who comprise the National Board of Governors and committees, the Association makes available to the University and the students the expertise, experience, and influence of alumni established in their communities and professions.

Graduate Study

(Specific degree programs and requirements are described in the "Colleges, Schools, and Departments" section of this publication.)

Graduate programs are administered under regulations set by the University Senate and by individual teaching units. Emphasis increasingly is being placed upon adapting degree programs to fit individual student needs. Usually this is done within traditional discipline degree majors, but several interdisciplinary degree programs have been instituted. Occasionally, the student's needs can be met best through an interdisciplinary-degree program spanning two or three teaching units. In such cases, the student applies to one department which is responsible for coordinating the various parts of the graduate degree to assure its quality and appropriateness for the student.

Graduate study at The American University is a diversified experience, not only in its range of fields of study, but also because of the heterogeneous student body. Enrollment of students from minority groups has grown to over 10 per cent of the total graduate-student population and reflects the University's commitment to serve the total needs of society. Additional diversification is provided through the opportunities for graduate study through the Consortium of Universities of the Washington Metropolitan Area. The Consortium permits graduate students at The American University to enroll for degree credit at Catholic University, Georgetown University, George Washington University, Howard University, D.C. Teachers College, Gallaudet College, and Trinity College.

Special University Programs

Wide Horizons Program for Transfer Students

The American University takes a special interest in transfer students and has established the Richard P. Ettinger Sr. Wide Horizons Program for Transfer Students. The program is designed to encourage and assist students and graduates of two-year colleges and transferees from four-year institutions to enter The American University.

The University welcomes transfer students because it values diversity in its student body and believes the differing socio-economic backgrounds, age levels, life experiences, levels of motivation, geographic origins, academic and other interests that transfer applicants bring with them from other colleges contribute to the ambience of all students.

Each transfer student receives extensive personal attention before and after enrollment with these goals in mind: easing transition from the sometimes structured environment of the two-year college and some four-year institutions to the freer system of The American University, which emphasizes analytical thinking and personal responsibility; providing essential information about programs, departments, interdisciplinary-study opportunities, and academic regulations; planning an academic program designed for maximum educational returns; and, finally, helping to solve personal, vocational, and educational programs through personal guidance.

The Wide Horizons Program serves as a general resource center for all matters pertaining to the transfer process, and any student who has a question or problem related to the transfer situation should phone, write, or visit the office for assistance. The office is located in the Asbury Building and is part of the Office of Admissions, Financial Aid, and Veterans Affairs, Programs, and Services.

The Consortium of Universities of the Washington Metropolitan Area

The American University
The Catholic University of America
Georgetown University

The George Washington University
Howard University
District of Columbia Teacher's College
Gallaudet College
Trinity College

The Consortium began operation in 1964 when five universities in Washington agreed to cooperate in making available almost unlimited faculty and facilities by allowing a student to attend a course of his choice at the university in the area offering it. Today, through the Consortium of eight universities and colleges, there are available more than 15,000 courses, taught by more than 5,900 faculty members. Besides sharing classroom experiences, the Consortium expands the library resources of each Consortium student to include the library of the university or college offering the course in which the student is enrolled.

The Consortium, while utilizing the invaluable resources of the city of Washington, is in turn a resource for the city. For example, in one Consortium program, law students spend one or two days a week in the D.C. Court of General Sessions, helping the poor with small claims cases. Other programs include cooperative ventures with scientific and cultural institutions. The Smithsonian Institution and the Consortium support an annual Biology Seminar, in which leading biologists deliver papers. Students then take part in follow-up sessions on their campuses for credit. Course fees are paid only to the home institution, and credit is recorded on the home university transcript.

Marine Science Consortium

The American University offers a wide variety of graduate and undergraduate field courses in environmental and marine sciences through the Marine Science Consortium. The Consortium operates two laboratories, one at Lewes, Delaware, and one at Wallops Island, Virginia. Both have complete cafeteria and dormitory facilities. The laboratories operate 15 vessels, six over 30 feet in length. The largest vessel is the 92-foot *Annandale*, a floating oceanographic laboratory with space for 15 investigators.

Cooperative Engineering Program with Washington University, St. Louis

Since students studying in the fields of mathematics, physics, chemistry, biology, and distributed sciences are all potentially engineering students, The American University has established a cooperative five-year program with the School of Engineering and Applied Science, Washington University, St. Louis, Missouri. Students spend three years on The American University campus concentrating in the major fields in the College of Arts and Sciences. (Students must work very closely with the faculty advisor. If the faculty advisor recommends the student, there is guaranteed admission to Washington University after the completion of the junior year.) After a satisfactory fourth year at Washington University, the bachelor's degree is awarded by The American University. The fifth year provides for the completion of a second major in one of the engineering fields.

The American University Wolf Trap Academy for the Performing Arts

The American University Wolf Trap Academy for the Performing Arts is a venture of The Wolf Trap Foundation, the National Park Service, and The American University. The Academy's program has, as its continuing focus, high quality professional training and performance opportunities for young high school and college students and artists in symphony, orchestra, chorus, chamber music, wind ensemble, dance, and theatre. Approximately 800 students from around the world study, rehearse, and intermingle with individual artists and companies in summer residence at the University and Wolf Trap Farm Park.

Washington Semester Programs

Established in 1947 and operated by the School of Government and Public Administration of the College of Public Affairs, the Washington Semester Programs provide intercollegiate honors programs for field study of various aspects of the American governmental and political system. More than 260 students from over 140 colleges across the country attend each year for a full semester to pursue their choices among six programs of study in which meetings in the field with public officials, lobbyists, political figures, and others active in the governmental and political process serve as central elements in the teaching methodology. Guided individual and team field research and internships are also provided in connection with these offerings.

The six programs of study are:

THE WASHINGTON SEMESTER

The Washington Semester is the original program offering and covers the American national governmental and political system as a whole. It is taught by members of the faculty of the School of Government and Public Administration of the College of Public Affairs.

THE WASHINGTON URBAN SEMESTER

Patterned on the Washington Semester, the Washington Urban Semester is part of the program in urban affairs of the School of Government and Public Administration and serves both the student body at The American University and the member colleges of the Washington Semester Programs. Emphasis is placed not on urban politics alone, but also on policies of regional agencies, states, and the national government in urban matters, and the politics of intergovernmental decision making in this field.

THE FOREIGN POLICY SEMESTER

Originating as the Washington International Semester in Fall 1970, the Foreign Policy Semester is offered by the faculty of the School of International Service of the College of Public Affairs and, like the Urban Semester, is open to students both from The American University and from member colleges. The Foreign Policy Semester provides its students with an opportunity to observe and study the manifold governmental, international, and private activities which contribute to the United States' posture in world affairs.

THE INTERNATIONAL DEVELOPMENT SEMESTER

Taught by the faculty of the School of International Service, the International Development Semester focuses on problems and policies of less-developed nations and their relations with the more advanced industrial countries. It is open to students from The American University and from member schools in the Washington Semester Programs.

THE WASHINGTON ECONOMIC POLICY SEMESTER

The Washington Economic Policy Semester is offered by the faculty of the Department of Economics of the College of Arts and Sciences. It is an intensive examination of the macro and micro dimensions of the policy making process in the nation's capital. The program is designed for students with an interest in the practical as well as the theoretical. The subject focus is on stabilization policy in all of its aspects—theoretical, practical, and political; environmental economics and the economics of the energy shortage; international economy and recent developments in the international monetary field and the impact of the multi-national corporation. Additional topic areas include tax policy, poverty and the attempts to reduce poverty, anti-trust actions and the role of big business, and urban economic policy. It is open to students from The American University and member colleges in the Washington Semester Programs.

THE WASHINGTON SCIENCE AND TECHNOLOGY SEMESTER

The Washington Science and Technology Semester is offered by an interdisciplinary faculty of the College of Arts and Sciences and the College of Public Affairs. It focuses on insights into the present state of science and technology in specific national problem areas such as the energy shortage, environmental pollution, nutrition, health, crime detection and deterrence, and national defense. Other study areas include federal policy toward science, funding sources in the federal government, issuance of patents and licenses, the sources of scientific and technical information, and the roles of scientists, scientific societies, pressure groups, and the press in policy making. The program is designed for upper undergraduate students majoring in the natural sciences, mathematics, and computer science. It is open to students from The American University and member colleges in the Washington Semester Programs.

Government Workshop Abroad

The School of Government and Public Administration of the College of Public Affairs sponsors a comparative workshop abroad to Eastern and Western European countries as part of its summer program. Students may earn academic credit by participating in a field study of foreign governments.

The American University Year Abroad in Israel

The American University Year Abroad in Israel is a year-long overseas study program in association with Tel Aviv University. Studies commence with a two and one-half month

intensive institute in Hebrew, the *ulpan*. During the rest of the academic year courses will be conducted in English and Hebrew and will include a variety of subjects such as Jewish studies, humanities, social sciences, and Middle Eastern studies. This eleven-month, 40-credit program integrates academic studies with tours of Israel, educational field trips geared to the student's area of special interest, weekends in *kibbutzim* and Israeli homes, participation in archeological excavations and meetings with prominent Israeli leaders.

Graz Center

The American University is a member of the Association of Colleges and Universities for International-Intercultural Studies, Inc. (ACUIIS). This organization of colleges and universities throughout the United States provides opportunity for selected students to study abroad and receive residence credit at their "home" university. It is similar in most respects to a junior year abroad program. Courses taken through this program are indicated on the permanent record by the prefix GRAZ.

Institutes

An institute is a specialized and intensive academic offering of the University designed primarily for persons engaged in professional fields. Institute programs are developed in consultation with specialists in business organizations, government agencies, and national associations located in Washington and consist of formal lectures and seminar discussions, field and laboratory work, reading assignments, and research projects.

Individual institutes are listed under their appropriate academic units in the "Colleges, Schools, and Departments" section of this publication.

Special Lectures

Each year the Student Confederation and certain classes and clubs bring to the campus, as part of their regular programs, outstanding leaders in government and public administration for lectures and discussions with interested students. Congressmen, staff members of Congress, administrative officers, political party officials, and other public affairs leaders have met with students in recent years.

The Department of Philosophy and Religion also sponsors guest lecturers who include outstanding spokesmen in the area of philosophy and religion. This department sponsors the annual "Faith and Freedom" lectures which bring distinguished scholars to the campus to discuss some aspect of man's spiritual heritage relative to its implication for the concept of freedom. Lectures on religion are also sponsored by the chaplains.

Hurst R. Anderson Forensic Society

The Hurst R. Anderson Forensic Society annually sponsors the Congressional Cup Invitational Debating Tournament which is attended by debate teams from schools and colleges from across the nation.

English Language Institute

The English Language Institute of the College of Continuing Education offers courses and special programs in English as a foreign language and English as a second dialect. The Institute seeks to serve the University and the Washington community in developing innovative programs suited to the particular needs of foreign students and native speakers of English whose dialect is other than standard.

Off-Campus Programs

The College of Continuing Education administers offering credit and non-credit courses at various locations throughout the Washington metropolitan area. The various programs are designed to meet the educational needs of students who wish to attend the University on a part-time basis at a center near their home or place of work.

Pride/American University Institute

An undergraduate certificate and associate degree program for inner-city residents recruited by Pride, Inc., and other community organizations is sponsored by the College of Continuing Education. The curriculum features courses relevant to the educational needs of students recruited from inner-city neighborhoods. These courses are open to students of The American University with the permission of the College of Continuing Education.

The Business Council for International Understanding (BCIU) Institute

In 1959 The Business Council for International Understanding selected The American University as its training institute to prepare U.S. and foreign business executives and their families to effectively work and live in other cultures. The BCIU Institute provides workshops monthly for personnel from international organizations, and has more than 2,000 graduates living in 87 countries, including Eastern Bloc countries. Programs consist of high-intensity language instruction in 16 languages, intercultural communications workshops for more than 100 countries, area studies for 21 major regions, and relocation services for 34 major cities throughout the world. In-house programs are conducted for management and organization development, government-business relations, intercultural communications training, and area/country orientation. The faculty is composed of resource personnel from The American University and other area universities, U.S. Government, international organizations, and international business.

For additional information, write to the Director, The BCIU Institute, The American University, Washington, D.C., 20016.

Center for Research and Documentation on the European Community

Established in 1971 and housed in the Department of Language and Foreign Studies, CERDEC has been granted status of "Center for European Documentation" by the authorities of the European Community in Brussels.

The Center provides academic guidance for courses and research in the field of European integration. It encourages teaching on the Common Market through available undergraduate and graduate programs, some being administered jointly by the Department of Language and Foreign Studies and the Department of Communication or the School of International Service. Another function of CERDEC is to see that the various publications from the institutions of the European Community are made available on a daily basis to interested students on the campus as well as those from other schools of the Consortium of Universities of the Washington Metropolitan Area.

For additional information write to the Office of the Director, CERDEC, The American University, Washington, D.C., 20016.

Center for the Study of Private Enterprise

The Center, with the cooperation of the Secretary of Commerce, sponsors three lectures in business-government relations each year in addition to the Annual Washington Conference on Business-Government Relations.

Admission Information

Admission for Undergraduate Students

Application for admission to undergraduate degree programs may be made for any Fall, Spring, or Summer term.

The applicant is required to submit the application form and a non-refundable application fee of \$15. Forms may be obtained by writing or telephoning the Office of Admissions, Financial Aid, and Veterans Affairs, Programs and Services. Requests for this material may be made via toll-free long distance using the number: (800) 424-8881. Local calls may be made on 686-2211.

Applications and all supporting documents must be on file in the Office of Admissions, Financial Aid, and Veterans Affairs, Programs and Services by the following dates:

Fall—July 15
Spring—December 15
Summer—April 15

(Exceptions to these dates will be made upon special request if it is possible to receive and process the necessary documents in time for registration.)

The applicant is responsible for requesting that official transcripts and test scores be sent directly from the issuing institutions to The American University Office of Admissions, Financial Aid, and Veterans Affairs, Programs and Services.

Transfer applicants must request *each* collegiate institution previously attended to send directly to the Office of Admissions, Financial Aid, and Veterans Affairs, Programs and Services an official transcript of all work taken. All institutions must be reported regardless of whether or not credit was earned or is desired by the applicant.

Applicants may expect to receive notice of decision on admission approximately four to six weeks from the time application and all supporting documents are received by the Office of Admissions, Financial Aid, and Veterans Affairs, Programs and Services.

Freshman Requirements

A graduate of an approved secondary school who has completed sixteen acceptable units, fifteen of which are academic or college preparatory in nature and include four units in English and two units in mathematics, will be considered for freshman standing. Applicants to the College of Arts and Sciences should also have completed two years of the same foreign language.

The following College Entrance Examination Board Tests should be taken as early as possible and the Board should be requested to send official score reports directly to the Office of Admissions, Financial Aid, and Veterans Affairs, Programs and Services:

- (1) *The Scholastic Aptitude Test* (required)
- (2) *The English Language Achievement Test* (required)

- (3) Applicants who plan to continue the study of a foreign language which was begun in secondary school may wish to submit scores on the appropriate *Foreign Language Achievement Test*, to be used in placing the student at the proper level of work. The test should be taken as early as January if possible, but no later than May for Fall admission.
- (4) Additional Achievement Test scores may be submitted (no later than May for Fall admission) at the discretion of the applicant.
It is recommended that the *Mathematics Achievement Test* (either *Level I* or *Level II*) be taken by any freshman applicant whose intended major program of study will require the completion of course work in mathematics and/or statistics either as a requirement of the major or as a related requirement.

The American College Test scores are also acceptable if you do not plan to take the College Entrance Examination Board Tests.

Equivalency Diploma

Holders of equivalency diplomas issued by state departments of education are eligible for consideration as freshmen but are subject to an entrance examination at the direction of the Office of Admissions, Financial Aid, and Veterans Affairs, Programs and Services.

Veterans or present members of the armed forces who have taken the *General Education Development Test*, the *Comprehensive College Test*, or the *General Examinations* of the College Level Examination Program, should apply to their state department of education for an equivalency diploma. Official certification of the diploma should be sent by the state department of education directly to the Office of Admissions, Financial Aid, and Veterans Affairs, Programs and Services.

School of International Service Freshmen Applicants

In addition to standards and procedures pertaining to undergraduate admission at The American University, candidates for admission to the School of International Service must present evidence of outstanding personal and academic qualifications. Eligibility for freshman consideration normally requires a B average in secondary school. Other factors considered are leadership qualities, character, and personal interest.

Early Admission

The American University offers an opportunity for early admission to freshman applicants whose ability, academic achievement, and general maturity indicate that they are ready to initiate collegiate work a year earlier than normal. Such applicants must fulfill in general the requirements set out above.

The Director of Freshman Admissions will be pleased to send information to secondary school principals, counselors, or individual students inquiring about such admission. Each individual is considered on his own merit. However, major factors important to evaluation are:

- (1) The secondary school record, with special reference to grades achieved and a pattern of courses taken.
- (2) Performance on the College Entrance Examination Board Tests.
- (3) The recommendation of the secondary school principal and counselor.
- (4) A letter from the applicant stating the reasons for seeking early admission.
- (5) Possibly an interview with a screening committee.

Advanced Placement

By the following means freshman applicants may earn advanced standing credit which may be used toward filling degree requirements:

- (1) *The College Entrance Examination Board's Advanced Placement Program.*
In some secondary schools enriched courses are offered under this program. On the basis of scores achieved in the special examinations given, the applicant may be granted actual college credit or advanced placement in courses.
- (2) *The College Level Examination Program.*

Credit may be earned for superior performance in the following subject matter examinations: American Government, Analysis and Interpretation of Literature, Biology, Computers and Data Processing, English Composition, English Literature, FORTRAN IV, General Chemistry, General Psychology, Introductory Calculus, Introductory Economics, Introductory Marketing, Introductory Sociology, Tests and Measurements.

From time to time additional subject matter examinations are added to those listed above. Applicants will be kept informed of additions to the list. For complete details on the CLEP at

The American University, write the Office of Admissions, Financial Aid, and Veterans Affairs, Programs and Services.

For information about taking CLEP tests write to: The College Level Examination Program, Box 1821, Princeton, New Jersey, 08540.

- (3) *Credit earned while attendance in a regionally accredited college or university either in a summer session or during the regular school year.* Applicants must have an official transcript of the work completed sent directly from the other college to the Office of Admissions, Financial Aid, and Veterans Affairs, Programs and Services of The American University.

Credit may be earned in a combination of the above programs except that duplicate credit is not given.

Transfer Student Requirements

To be considered for transfer admission applicants normally should have maintained a minimum C average or the equivalent at a regionally accredited collegiate institution, or an institution which is a Recognized Candidate for Accreditation, and should be in good academic and social standing at the school previously attended.

Advanced Standing

Transfer students may normally expect to receive credits for courses taken at regionally accredited collegiate institutions or institutions which are Recognized Candidates for Accreditation, if the courses were completed with grades of A, B, C, or the equivalent of P on a pass-fail system (where P is specifically designated as indicating a quality of work no lower than C on a conventional grading scale), and if the courses are appropriate for academic credit.

Courses completed with grades of D will be accepted on transfer from each previous school in which at least a 2.0 average has been maintained, subject to the following conditions: A D grade course may not be applied toward a major or major-related course requirement or, in ordinary circumstances, to the satisfaction of English requirements.

A maximum of 30 semester hours, or the equivalent, may be accepted on transfer for a combination of relevant work completed satisfactorily (a) in Armed Services School courses recommended for baccalaureate credit by the American Council on Education, or (b) for college-level correspondence or extension courses completed through the United States Armed Forces Institute.

An additional 30 semester hours, or the equivalent, may be granted for relevant work completed in college-level non-degree, extension, or correspondence courses offered through a collegiate institution which accepts the credit for its own degree.

A grant of 30 semester hours of advanced standing credit in the area of undergraduate electives may be awarded to students who, at the time of admission to an undergraduate degree program, present evidence that they have been licensed to practice as:

- (1) attorneys
- (2) dental surgeons
- (3) certified public accountants
- (4) medical doctors
- (5) accredited members of other licensed professions, by special permission of the Committee on Undergraduate Admissions Scholarships and Financial Aid.

Transfer students may also avail themselves of the possible credit allowable under the College Level Examination Program (q.v.). In addition, transfer students whose prior records reflect assignment of credit toward a degree for General Examinations of the CLEP will be granted appropriate credit.

A maximum of 90 semester hours of credit or the equivalent in American University course unit credit will be acceptable on transfer from 4-year collegiate institutions, or a maximum of 75 semester hour credits with an Associate's degree from a two-year collegiate institution.

To be eligible for a degree from The American University an undergraduate student must complete at The American University a minimum of eight course units (equivalent of 30 semester hours) out of his last 16 course units toward a degree. A student must complete a minimum of four upper level courses in his major at The American University. More may be required by the department chairman or dean according to the individual department's normal requirements for a major. No more than a maximum of 24 transferred course units may be used toward an undergraduate degree.

Courses accepted for transfer will not be included in the grade-point average to be maintained at The American University, but they will count towards the total number of courses required for graduation.

Transfer to the School of International Service

Students from other regionally accredited collegiate institutions and those in other majors at The American University, who have completed the freshman year, are eligible to apply for admission to the School of International Service. Normally applicants should have maintained a cumulative B average.

Decisions on transfer applications usually cannot be made on less than 12 semester hours of work or the equivalent. However, the secondary school record and College Board scores (as required for freshman, *q.v.*) are required for those with less than 12 semester hours of transferable work, to aid in reaching a decision.

Notice of Admission

Applicants who are admitted and who plan to attend the University are required to pay a non-refundable tuition deposit of \$100 within six weeks from the date of acceptance. However, if the tuition deposit is not paid by the required deadline, the student may later request that his admission be re-activated provided there are still openings in the incoming class of that semester. However, since application for campus housing cannot be made until the tuition deposit has been paid, it is to the student's interest to submit the deposit as soon as possible if campus residence is desired. The room deposit of an additional \$100 is required when the lease is submitted.

Complete detailed instructions are furnished with the notice of admission.

Admission for Part-Time Undergraduate Students

A student enrolled in less than three full course units is considered a part-time student.

Any student employed for more than 20 hours a week is expected to register as a part-time student and should enroll for no more than two and three-quarter course units or the equivalent per semester. Students may also register part-time for reasons other than employment.

The applicant considering part-time study in a degree program is cautioned that he may be unable to complete the necessary course work for the degree by attending evening classes only. Before applying, he should consult with the department chairman of his proposed major to ascertain if the required courses will be available to him.

Part-time degree applicants are required to meet the same standards for admission as full-time applicants, and should follow the instructions under either "Freshman Requirements" or "Transfer Student Requirements," whichever is appropriate, with the following exceptions pertaining to College Board tests:

- (1) If the freshman applicant has taken College Board tests within the past five years, he is required to contact the College Entrance Examination Board, Box 592, Princeton, New Jersey, 08540; or Box 1025, Berkeley, California, 94701, to request that official scores be sent directly to The American University Office of Admissions, Financial Aid, and Veterans Affairs, Programs and Services.
- (2) If the applicant completed secondary school within the past two years and *did not* take College Board tests, he must arrange to do so. Information on how to apply may be obtained from the College Entrance Examination Board, address given immediately above.
- (3) If the applicant completed secondary school *more than* two years ago and *did not* take College Board tests, he may be asked to take an alternate examination at the direction of the Office of Admissions, Financial Aid, and Veterans Affairs, Programs and Services.

Re-Admission for Undergraduate Students

An undergraduate student whose studies at the University are interrupted for any reason for a period of one semester (excluding the summer sessions) must submit a formal application for re-admission to the Office of Admissions, Financial Aid, and Veterans Affairs, Programs and Services at least two months in advance of the beginning of the semester or summer session in which courses are desired, unless written permission to study at another collegiate institution has been secured in advance or the student has been granted an official leave of absence. (See "Transfer Student Requirements" above.) If a student was in good standing at the time that he left the University, and/or if he has maintained a satisfactory grade point average at another school, his re-admission is virtually assured. It is to a student's advantage to apply for re-admission as early as possible so that he may advance register. If re-admission is approved, the student is subject to the academic requirements and regulations in effect at the time of his re-admission.

Transfer from Non-Degree to Undergraduate Student Status

Students wishing to transfer from non-degree status at The American University to undergraduate status must submit a formal application for admission to an undergraduate program through the Office of Admissions, Financial Aid, and Veterans Affairs, Programs and Services. If a student is accepted into an undergraduate degree program, he may transfer a maximum of 30 semester hours (or the course unit equivalent) of credit from the non-degree program to the degree program. If the student is denied admission to an undergraduate program, he may not re-register at The American University for further courses.

Campus Visits and Interviews

Prospective students are invited to visit the University but are not required to do so. The student is asked to make an appointment with the Office of Admissions, Financial Aid, and Veterans Affairs, Programs and Services three weeks in advance if by mail, two weeks if by phone.

Prospective freshmen participate in small group conferences conducted by an admissions officer, who will review admission policy and procedure and answer questions about the University. Applicants should be prepared to submit a brief resumé of their academic qualifications, *i.e.*, academic average, College Board scores, and rank in class.

Campus tours are available for visitors after the conference. However, during holiday periods when the University is not in session, it may not be possible to gain access to classroom buildings and dormitories.

Students attending another college or university who are interested in transferring to The American University may make appointments in advance for individual conferences with an admissions officer. A transfer student either should have an official transcript of previous work forwarded to the Office of Admissions, Financial Aid, and Veterans Affairs, Programs and Services prior to his visit, or bring a personal copy for use in the conference only.

The Office of Admissions, Financial Aid, and Veterans Affairs, Programs and Services is not always able to arrange classroom visits for prospective students. However, a visitor may attend classes with a friend enrolled at the University if permission of the professor has been granted in advance. Saturday class offerings are very limited.

The University does not have facilities for the accommodation of overnight visitors unless arrangements are made in advance with a friend. A list of convenient motels and hotels is available on request.

Admission for Graduate Students

The minimum University requirements for consideration for admission to graduate study are as follows (refer to individual department or school for specific minimum requirement):

- (1) Possession of a bachelor's degree earned at an accredited college or university.
- (2) A 2.5 cumulative grade point average, based on a four point system, in an undergraduate program, calculated on the last 60 semester hour credits of course work completed and available at the time of consideration of application for admission. If the last 60 hours include some hours in a semester, all the hours taken in that semester must be evaluated.
- (3) Based on a four point system, maintenance of a cumulative grade point average of at least 3.0 in all *relevant* graduate work which has been attempted.
- (4) Or, instead of items 1, 2, and 3 above, an applicant for graduate study may be admitted without reference to his undergraduate average provided he has maintained either a 3.3 cumulative grade point average in a master's degree program completed at an accredited institution, or a 3.5 cumulative grade point average in the last 12 semester hour credits which are a part of a master's or doctor's degree program still in progress at such an institution at the time of the evaluation of his application, or in graduate work taken in non-degree status at The American University and applicable to the degree program for which he is applying.
- (5) In the case of applicants to professional terminal master's degree programs, teaching units may, with the approval of the Graduate Studies Committee and the Vice President for Academic Affairs, establish alternative admission criteria if the undergraduate degree is over five years old.

Applicants should refer to the chart below which lists deadlines for applying and additional departmental requirements.

Graduate School Requirements

College of Arts and Sciences

<i>Department</i>	<i>Degrees Offered</i>	<i>Applications Accepted For</i>	<i>Deadline</i>	<i>Additional Departmental Requirements</i>
Anthropology	M.A., M.A. in Applied, Ph.D.	all semesters (preferably Fall)	March 1	Two academic letters of reference; an example of your work—e.g., term paper; additional information available from department; send G.R.E. Scores if available.
Art: Art History	M.A.	all semesters	standard	Two letters of recommendation if first degree not earned in department; must have at least eighteen undergraduate hours in Art History.
Art: Painting	M.F.A.	all semesters	standard	Two letters of recommendation if first degree not earned in department; portfolio must be submitted to department.
Biology	M.S.	all semesters	standard	Two letters of recommendation, G.R.E., Aptitude, and Advanced Scores.
Chemistry	M.S., Ph.D.	all semesters	standard	B.S. in Chemistry; Interview may be helpful.
Communication	M.A.	usually Fall only	March 1	Must also submit special departmental application forms; only fulltime students should apply; two letters of recommendation with university application; interview by departmental invitation.
Economics	M.A., Ph.D.	all semesters usually Fall only for Ph.D.	standard advised to apply before February 1	G.R.E. aptitude recommended; Ph.D., two letters of recommendation required; M.A., two letters of recommendation recommended.
Education	M.A., M.Ed., Ph.D., Ed.D.	all semesters	May 1	Two letters of recommendation with university application; G.R.E. aptitude or Miller Analogies Test.

History	M.A., Ph.D.	all semesters but preferably Fall	standard	Two letters of recommendation from recent professors; G.R.E., Aptitude, and Advanced; no direct admission to Ph.D. program from B.A. level; in general, a 3.2 average in the undergraduate major and a 3.0 average on a 4.0 basis, a substantial beginning in one foreign language.
Language and Foreign Studies	M.A.	all semesters	August 1 for Fall semester	Two letters of recommendation from recent professors unless previous degree earned in the Department.
Literature Literary Studies	M.A., Ph.D.	all sessions (Fall only for Ph.D.)	January 15	Two letters of recommendation; Ph.D. at least two letters of recommendation; G.R.E. aptitude recommended; interview recommended.
Mathematics	M.A., Ph.D.	all semesters	standard	Ph.D., two letters of recommendation unless previous degree earned in department.
Music	M.A.	all semesters	standard	Two letters of recommendation; performance majors: personal audition or tape of recent performance. Composition majors: portfolio of at least five compositions for various media and representing both small and large architectural designs. Music Ed. applicants are expected to have teaching certificate.
Philosophy	M.A., Ph.D.	all semesters	standard	Two letters of recommendation; G.R.E. aptitude and advanced.
Physics	M.S., Ph.D.	all semesters	standard	Ph.D., two letters of recommendation unless previous degree earned in department.
Psychology	M.A., Ph.D.	Fall only	Before February 15	Admission to doctoral program only, though M.A. may be earned in the department; two letters of recommendation; G.R.E. aptitude and advanced recommended.

<i>Department</i>	<i>Degrees Offered</i>	<i>Applications Accepted For</i>	<i>Deadline</i>	<i>Additional Departmental Requirements</i>
Religion	M.A.	all semesters	standard	Two letters of recommendation; G.R.E. aptitude recommended.
Science Teaching	M.S.S.T.	all semesters	standard	Three letters of recommendation for all students including those previously enrolled in the department. Non-degree students taking courses in the department should secure at least two of the three recommendations from departmental Faculty members.
Sociology	M.A., Ph.D.	all semesters	April 15 for those not applying for financial aid, and January 15 for financial aid applicants.	Ph.D., two letters of recommendation unless previous degree earned in department.
Statistics	M.A., Ph.D.	all semesters	standard	
School of Business Administration				
Major Fields	M.B.A., M.S.	all semesters	standard	Two letters of recommendation from professors or employers; A.T.G.S.B.; in addition all foreign students must take TOEFL
College of Public Affairs				
Center for the Administration of Justice	M.S. in Administration of Justice	all semesters	standard	Two letters of recommendation.

School of Government and Public Administration	M.A., M.P.A. Ph.D.	all semesters Fall only	standard February 15	Two letters of recommendation; preference given to full-time candidates for Ph.D. program; G.R.E. aptitude required for Ph.D. and for financial assistance for both Masters and Doctoral level.
School of International Service	M.A. Ph.D.	all semesters Fall only	standard March 1	Two letters of recommendation, G.R.E. aptitude for M.A.; no direct admission to Ph.D. from B.A.; G.R.E. not required for international students.
Center for Technology and Administration	M.S. in Technology of Management	all semesters	standard	Interview may be requested.

College of Continuing Education

Two letters of recommendation.

standard

all semesters

M.S. in Public Relations

Interdisciplinary Studies Program

An M.A. in Interdisciplinary studies is offered, but students are accepted for candidacy only if they have already been accepted as an M.A. student by another department at The American University. No students are admitted to the University as candidates for an M.A. in Interdisciplinary Studies.

standard

all semesters

M.A.

Provisional Standing

Each college, school, or department within the University may admit to provisional standing a limited number of students who do not meet the minimum standards of either the University or the teaching unit. By the end of one full semester of full-time study or by the first 12 hours of part-time study, the student will be evaluated by his college, school, or department. Continuation in the graduate program will be permitted upon favorable appraisal of the student's performance.

The provisional admission status of a graduate student who *does not* give satisfactory evidence of his capabilities will be canceled.

Clearance

A student who has applied for admission to a degree program must clear his admission status before registering for a course. Students who have not received notification of status should inquire directly to the Office of Admissions, Financial Aid, and Veterans Affairs, Programs and Services before attempting registration. A provisionally admitted student will be designated as such at the time that he is admitted. (See above.)

Candidates for graduate degrees will be subject to those academic regulations in force at the time of their admission.

Re-Admission for Graduate Students

Continuation in the degree program may be granted once, for a period of three years, subject to the requirements of the particular degree in effect at the time of re-admission, and may involve taking additional courses and/or other work. When a student is re-admitted under these circumstances, the length of time that he will be allowed to complete his degree requirements and any additional courses, examinations, or other requirements which are deemed necessary by the teaching unit will be specified.

Any degree calling for additional prerequisite courses has the Statute of Limitations (see *Graduate Student Information and Regulations* in this publication) extended in the proportion that the prerequisite requirements bear to the graduate credit requirements.

Transfer Credit

Credit may be considered for transfer at the time of admission, provided the admission is not provisional, or at advancement to candidacy, or other specific times established by the teaching unit. A maximum of six hours of graduate credit earned with a B or better may be transferred into a master's degree program. A maximum of 30 hours of graduate credit, earned with a B or better, may be transferred into a doctoral program. Transfer of credit is subject to the approval of the appropriate department chairman and dean.

Admission for International Students

The following regulations apply to all students who are not citizens of the United States of America, including students with permanent immigrant status.

Admission Procedures: Degree Admission

All international students applying for admission as degree students must arrange to have official transcripts sent directly to the Office of International Admissions by all secondary schools and/or colleges attended. These documents should be sent well in advance of the semester for which the applicant seeks admission. Personal student papers, photostats, or attested copies are not accepted for evaluation purposes. All international students whose native language is not English and who are applying for admission as undergraduate or graduate degree students must take the *Test of English as a Foreign Language* (TOEFL). Information regarding the procedure for taking this test may be obtained from: TOEFL, Educational Testing Service, Princeton, New Jersey, 08540, U.S.A.

Admission Procedures: Non-Degree Admission

All international students who wish to take courses as non-degree students must present to the Office of International Admissions evidence of their successful completion of high school (or its equivalent) and/or colleges attended. Non-degree international students may use personal copies, photostats, or attested copies for counseling purposes. Non-degree international students who wish to become degree students must have official documents sent to the Office of International Admissions at the time that they apply for degree status.

English Language Requirement for Registration: Degree and Non-Degree

All international students whose native language is not English, whether degree or non-degree students, are required to take an English proficiency test at the University before their first registration. International students who wish to take foreign language courses only (French, German, Russian, Spanish, etc.) may be exempt from the English proficiency test after consultation with the Department of Language and Foreign Studies. Freshman international students will take a placement test in English. All other undergraduate international students and graduate international students, as well as non-degree international students, must take an English waiver examination prior to their first registration at The American University. If an international student's command of English is insufficient to follow the program in which he wishes to enroll, he will be required to take one or more special courses in English as a second language.

Visa Requirements

The United States Department of Justice Immigration and Naturalization Service regulations governing non-immigrant "F-1" students require international students in this category to pursue a full course of study while maintaining non-immigrant student status.

In compliance with the provisions under which this institution has been classified as a training agency for international students, The American University requires all non-immigrant "F-1" students to pursue a full course of study each semester during the period of their enrollment.

Under this regulation an undergraduate student will be required to register for at least three (3) full course units and a graduate student will be required to register for at least nine (9) semester hours of course work. Any modification of this requirement which results in a course load below these minimum requirements must be authorized by the International Student Advisor in consultation with the Coordinator of International Admissions and the academic advisor.

Students who fail to observe the above requirements will be ineligible to receive a Certificate of Eligibility (Form I-20) and all other letters of certification in support of their continuation in non-immigrant "F-1" student status.

All students bearing non-immigrant Foreign Student "F-1" visas are required to attend initially the educational institution which issued the Certificate of Eligibility (Form I-20) utilized in obtaining the visa.

Students bearing non-immigrant Foreign Student "F-1" visas are reminded that transfer from one U.S. educational institution to another must be authorized by the U.S. Immigration and Naturalization Service.

Students in the Exchange Visitor visa category (J-1) requesting transfer to the University's Private Exchange Visitor Program from another program number must obtain approval from the International Student Advisor before admission to the University becomes valid.

Questions concerning U.S. Immigration and Naturalization Service regulations should be directed to the International Student Advisor, Room 221, Mary Graydon Center, The American University.

Registration Procedures

In addition to the normal registration instructions, the following regulations apply to all international students, degree or non-degree:

- (1) All non-immigrant international students and students who do not possess full U.S. citizenship are required to obtain the signature of the International Student Advisor at the time of registration for courses.
- (2) New international students, whether degree or non-degree, **may not advance register** for their first semester at the University. They must complete their first registration during the general registration period.
- (3) International students may take courses in the University's off-campus program, but they **may not register off-campus**; registration must be completed on campus.

English Language Institute

International students wishing to enroll in the English Language Institute, either on a full-time or part-time basis, must have completed the equivalent of an American high school education (12 years of schooling) or be at least 17 years of age at the time of enrollment. Students who are applying for admission to the English Language Institute *for English only* need not take the *Test of English as a Foreign Language* (TOEFL). After filing an application,

students who are accepted will be sent a formal letter of acceptance and a Certificate of Eligibility (Form I-20) for a student visa if one is required. Admission to workshops or courses in the English Language Institute in no way implies eligibility for admission to any program or course of study in other divisions of The American University.

Information and course dates will be mailed upon request by writing or telephoning:

English Language Institute
College of Continuing Education
The American University
Washington, D.C., 20016, U.S.A.

phone: (202) 686-2197

Admission for Non-Degree Students

General

The non-degree program of The American University enables students to pursue courses of study without first being accepted as regular degree candidates in undergraduate and graduate degree programs. Through the non-degree program, the College of Continuing Education is able to meet a wide variety of educational needs of students who for academic, administrative, or other reasons find it to their advantage to enroll in a non-degree status. A non-degree student may apply for admission to courses of his choice for which he has the necessary background and qualifications. Such courses may be taken for professional preparation or personal enrichment on either a credit or audit basis.

Non-degree students are not permitted to enroll for courses offered at other member institutions of the Consortium of Universities of the Metropolitan Washington Area.

A non-degree student is not permitted to enroll in a xx.600 or xx.700 level course unless he secures in advance the written permission of the dean or department chairman of the school or college which has jurisdiction over the course. He must also have the approval of a non-degree advisor.

All non-degree students are held to the same level of academic standards as degree students. Non-degree students who do not maintain a C average (2.00 on a four point scale) will be placed on academic probation. If the student does not bring his average up to a 2.00 after an additional year's work, he will be dismissed from the University.

Eligibility

Enrollment in this category ordinarily is limited to students who are (1) over 21 years of age or will be 21 during the semester of their enrollment, or (2) if under 21, are currently enrolled in another institution, or (3) meet other criteria for admission, as established by the College of Continuing Education, and (4) meet the prescribed prerequisites of the course(s) desired.

A high ability high school student who has completed the 11th grade and is recommended by his counselor or principal to attend The American University may do so as a non-degree student. The student so qualified must submit his high school transcript and receive approval for course attendance from the teaching unit concerned as well as approval of the College of Continuing Education.

Any student who is not in good standing or has ever been dismissed from another college or university must make an appointment with the Advisement Office of the College of Continuing Education, Room 204, McKinley Building, prior to registration to determine his registration eligibility.

Students currently enrolled as undergraduate or graduate degree students in any of the member institutions of the Consortium of Universities of the Metropolitan Washington Area may not register in non-degree status at The American University. Such students may use only the consortium registration procedure for enrollment in a course at The American University so long as they maintain their degree status at the other consortium member institution.

International students may register as non-degree students in so far as they abide by the regulations stipulated for non-degree international students in the "Admission for International Students" section under "Admission Information" in this publication.

Enrollment

A non-degree student ordinarily may not enroll for more than three course units or nine semester hours in any given semester. If he is employed full-time, he may not register for more

than two course units or six semester hours. However, a non-degree student may attend The American University as a full-time non-degree student if he meets one or more of the following criteria:

(1) has a bachelor's degree and is pursuing a course of study leading toward a teaching certificate;

(2) has a bachelor's degree and is making-up undergraduate prerequisites leading toward admission to an advanced degree program at The American University (student must obtain approval of the dean or department chairman prior to registration);

(3) is in good standing at another institution (except a member institution in the Consortium of Universities of the Metropolitan Washington Area) and has been granted permission by his dean or other appropriate official to attend The American University for the purpose of transferring credits received to his degree program at his home institution;

(4) is pursuing a certificate program sponsored by a governmental or private agency which requires the student to attend full-time.

In all cases students must obtain permission from a member of the advisement staff of the College of Continuing Education.

Non-Degree Status to Degree Status

Undergraduate-level students who wish to change from non-degree to degree status must submit the formal application and all required supporting documents for degree admission to the Office of Admissions, Financial Aid, and Veterans Affairs, Programs and Services. (See earlier sections of this publication for admission details.)

A non-degree student who is admitted to a degree program may use a limited number of course units or semester hours earned as a non-degree student (not more than eight course units if an undergraduate and not more than 12 semester hours if a graduate student) to meet the requirements for a degree at The American University providing that the courses are appropriate to the degree sought. (See earlier sections of this publication for transfer credit details.)

Tuition, Expenses, and Financial Aid

Tuition and General Fees

Tuition

Charges per semester are as follows:

Undergraduate Students	\$ 324	per 1 course unit
(\$81 per ¼ course unit; \$162 per ½ course unit; \$243 per ¾ course unit)		
Graduate Students	\$ 91	per 1 semester hour
	or \$ 273	per 1 course unit
Non-Degree Students	\$ 258	per 1 course unit
	or \$ 86	per 1 semester hour
Law Students		
*Full-time	\$1,250	per semester
Part-time	\$ 94	per 1 semester hour
Off-Campus Programs	\$ 195	per 1 course unit
	or \$ 65	per 1 semester hour

Auditors pay the same charges as students enrolled for credit and are subject to all applicable special fees listed below.

Given the continuation of the current economic conditions, as well as the need to continue and accelerate academic development of the University, it can be reasonably expected that tuition and fee increases will be required each foreseeable year beyond 1974-75. The University will attempt, however, to limit tuition and fee increases to reasonable levels.

Institutes

Charges for institutes and other special courses may be found listed under their respective headings in the *Schedule of Classes* published for each academic term.

*For the purpose of determining full-time status, non-credit courses will be included in and equated with credit courses according to the number of hours of scheduled class meetings per week.

Residence Hall and Board Charges

Room Charge	\$ 385	per semester
Residence Hall Association Fee	\$ 2	per semester
(Optional: will be waived only upon submission of waiver form to the Office of Student Accounts before end of first week of classes. Non-refundable if fee paid.)		
Board Charges: five day contract per semester	\$ 283	per semester

Special Fees

These fees are non-refundable. The charges listed below are not included in tuition and general fees.

Special Course and Laboratory Fees (See these courses as listed under their respective headings in the *Schedule of Classes* published for each academic term.)

Admission Application Fee	\$ 15	each
Deferred Payment Plan Fee	\$ 7	each
Student Confederation Fee	\$ 27	per semester
(Mandatory for full-time undergraduate students.)		
Late Registration Fee	\$ 10	each
(Effective the first day of the term.)		
Late Payment of Financial Obligations Fee	\$ 10	each
Reinstatement Fee	\$ 25	each
Returned Check Fee	\$ 5	each
(For personal checks not honored by the bank.)		
Motor Vehicle Registration Fee	\$ 10	per semester
Health Fee	\$ 20	per semester
(Not charged separately to full-time undergraduate students; required of all others who wish to use infirmary facilities.)		
Law School Activity Fee	\$ 20	per semester
Admission Testing Fee	\$ 2	each test
Official Transcripts Fee	\$ 2	each transcript
Student Picture I.D. Card Replacement Fee	\$ 5	each

Graduate Student Fees

The following charges are applicable to graduate students only.

Graduate Student Council Fee	\$ 2	per semester
(Mandatory for all graduate students, full-time and part-time.)		
Maintaining Matriculation Fee	\$ 50	per academic year
(See description under the "General Academic Information and Regulations" section of this publication.)		
Comprehensive Examinations (with each application):		
Master's and Doctor's	\$ 20	each examination
Additional Fee if <i>In Absentia</i>		
Master's	\$ 100	each
Doctor's	\$ 200	each
Microfilming of Dissertation, Thesis, or Case Study		
Master's Thesis or Case Study	\$ 25	each
Doctor's Dissertation	\$ 35	each

Graduation Fees

Rental charges for academic attire used during the Spring commencement ceremonies are announced in March.

Advance Registration

Students participating in advance registration must pay the balance due on or before the due date as indicated on the bill sent from the Office of Student Accounts. Accounts not paid by the due date will be subject to a late payment fee of \$10 and may also be automatically placed on the University deferred payment plan, subject to the \$7 deferred payment plan fee and subsequent late fee charges, if applicable.

Deferred Payment Plan

Registered students whose total charge, after deducting all forms of tuition assistance, is more than \$350 may elect to use the University deferred payment plan. Under this plan, the student pays one-half of his total charges at the time of registration and the balance approximately seven weeks later on the date shown in the academic calendar in the *Schedule of Classes* published for that academic term.

The charge for the University deferred payment plan is \$7 (not refundable). Students electing this plan are responsible for making subsequent payments in full at the Office of Student Accounts on or before the due date. Late payment will be assessed an additional fee of \$10. Repeated failure to make payment when due may result in denial of future registration privileges as well as a hold being placed on academic records—"registration stops" and "holds on academic records" will be released *only* upon payment in full of the outstanding balance in addition to a \$25 reinstatement fee levied by the Office of Student Accounts for financial delinquencies. Failure to make payments when due may also result in denial of future election of the deferred payment plan and may result in severance of the student's relationship with the University.

Tuition Assistance Contracts

Students enrolled under tuition assistance contracts must furnish: 1.) term or semester of student's attendance; 2.) amount of the payment to be made by other than the student (specify items); 3.) address for billing purposes; and 4.) signature of authorized official. Financial charges for books and supplies under tuition assistance contracts must reach the Office of Student Accounts by the end of the sixth week of the semester.

Financial Aid

Undergraduate Students

The American University has a varied program of financial aid for undergraduate students including transfer students. Scholarships, low interest long term loans, part-time employment, or any combination of these resources may be applied for. The University participates in all the federal aid programs for which it is eligible including National Direct Student Loans (NDSL), Nursing Loans and Scholarships, Cuban loans, Law Enforcement Education Program loans and grants (LEEP) (contact the Center for the Administration of Justice in the College of Public Affairs), Supplemental Educational Opportunity Grants (SEOG), Basic Educational Opportunity Grants (BEOG), Guaranteed Student Loans (state loans), and the college work/study program.

Entering freshmen and transfer students are eligible to apply for scholarships, the award of which is based on financial need and academic achievement. Federally financed programs are awarded on the basis of need.

In addition to the University *Application for Financial Aid*, a *Parents' Confidential Statement* must be filed by all applicants who are 25 and under and supported by their parents. If the applicant is under 25 and independent, married or single, he must file a *Student Financial Statement* along with a notarized statement from his parents indicating that no support has been given, and that he was not claimed as a tax deduction within the previous year and will not be claimed as a tax exemption or given any aid during the year for which the aid is required. If the applicant is over 25 and independent, and not claimed by parents for a tax deduction for the previous college year, he must file a *Student Financial Statement*.

Applicants and supporting credentials for all types of financial aid must be filed by November 1 for the Spring semester, April 1 for the Fall semester, and April 15 for the Summer sessions. Scholarships are awarded for the academic year but not normally for the Summer sessions.

Graduate Students

The Office of Admissions, Financial Aid, and Veterans Affairs, Programs and Services maintains a program of fellowships, traineeships, and graduate assistantships to support graduate students in programs of full-time study. Awards are made on the basis of academic merit and financial need. A program of Special Opportunity Fellowships and tuition grants is also available for students from tri-ethnic backgrounds.

Applications must be submitted by January 15 for awards to commence the following academic year. Applications for National Direct Student Loans (NDSL) and for college work/study must be submitted by April 1.

Both undergraduate and graduate applications for financial aid should be requested from and submitted to the Office of Admissions, Financial Aid, and Veterans Affairs, Programs and Services located in the Asbury Building.

Employment

Many students also earn a portion of their college expenses through part-time employment on the campus or in the Washington community. Inquiries concerning employment other than the college work/study program should be addressed to the Office of Career Development in Mary Graydon Center. First priority for jobs for students seeking campus employment will be given to those demonstrating a financial need.

Veterans Benefits

The American University is approved by the Veterans Administration for enrollment of veterans and dependents of deceased or disabled veterans eligible for educational benefits under the various public laws relating to veterans which have been passed by the Congress of the United States.

New Students

New students entering The American University must present both copies of Certificates of Eligibility at the time of advance or general registration *or*: file Veterans Application for VA Educational Benefits (22-1990) with a copy of DD 214 through the University Veterans Counselor in the Office of Admissions, Financial Aid, and Veterans Affairs, Programs and Services. Enrollment certification is then sent to the Veterans Administration by the Veterans Counselor to institute benefits for the enrollment period. A Certificate of Eligibility must be submitted to the Veterans Counselor to officially begin your veteran's file.

Service persons wishing to receive VA benefits for the first time must present both copies of the Certificate of Eligibility at advance or general registration *or*: file Serviceman's Application for VA Educational Benefits (22-1990a).

Transfer students who have received Veterans Administration Educational Benefits at another place of training or college but who wish to receive VA benefits for the first time at The American University should present both copies of Certificates of Eligibility at advance or general registration *or*: file Request for Change of Program or Place of Training (21E-1995) through the University Veterans Counselor. This is then sent to the Veterans Administration's Regional Office in Washington, D.C., with Enrollment Certification (21E-1999).

Continuing Students

Continuing Students need only file The American University VA claim card for educational benefits each semester thereafter. This request for *educational benefits must be filed each semester with the Veterans Counselor*. Any and all changes in registration (adds and/or drops) must be reported to the Veterans Counselor.

Payment and Financial Responsibility

With the exception of disabled veterans who are training under Vocational Rehabilitation, all beneficiaries of educational benefits from the Veterans Administration are personally responsible for the payment of their bills to the University. These persons should come to the University financially prepared to pay tuition and fees. The VA checks for educational benefits are sent directly to the student or address designated on The American University claim card. Those students who request and are granted advance payment pick-up only the first check

issued through the Veterans Counselor; thereafter the checks are sent directly to the student or address on file with the VA. Normally it takes six to eight weeks from the time of filing your semester claim with the Veterans Counselor before the first check arrives. Veterans whose claim cards are completely filled out will have their claim processed first. Incomplete claim cards (no file/claim number, etc.) will be processed last.

The Veterans Counselor is part of the Office of Admissions, Financial Aid, and Veterans Affairs, Programs and Services. The Veterans Counselor is located in Room 218, Asbury Building. For further information please call (202) 686-2826.

Student Life and Services

Office of Student Life

The Office of Student Life offers a program of services to students and faculty which complements and assists the University's formal academic program. These services are implemented through the Career Development Office, Counseling Center, Student Activities Office, Chaplain's Office, Health Center, International Student and Faculty Exchange Office, and Residential Life Office. The Office also acts as liaison with the dining services.

Career Development Center

The Career Development Center assists students and graduates of the University interested in obtaining part-time, temporary, and summer employment, and in seeking career employment to start after graduation. For the student needing part-time or temporary employment, the center offers information and assistance relative to a wide variety of job openings on the campus and the Washington metropolitan area. The center also has listings of many room and board situations for students and listings of job openings for part-time students needing a full-time job.

The center provides counseling, guidance, and other assistance in important aspects of career planning and career job seeking. The center maintains for student use reference materials pertaining to career employment opportunities in a broad range of occupational fields and employer situations. It provides a referral service whereby credentials for applicants for career employment, particularly teaching candidates, are referred to interested employers on request. Through an annual campus interview program, the center offers an opportunity to acquaint students for interviews with representatives of numerous business and industrial firms, government agencies, and school systems seeking career employees. The center also provides information to registrants on specific career job openings.

Counseling Center

The aim of the University Counseling Center is to assist students to better understand themselves, to deal more effectively with important decisions, and to resolve problems. An intensive program of professional psychological services is provided.

Counseling is on an individual or group basis depending upon what is more suitable. Help is available in vocational or educational planning, in resolving problems of a personal or social nature, and for pre-marital and marital concerns. In addition, there are encounter groups to enhance personal development. Other services include various testing programs, an occupational information library, and a reading and study skills laboratory to improve educational skills.

There is no additional charge to full-time students for Counseling Center services. All contacts are confidential.

International Student and Faculty Exchange

The Office of International Student and Faculty Exchange provides specialized services geared to the needs of foreign nationals and to U.S. students contemplating study outside the United States. These services include the general counseling and guidance of international students, coordination of U.S. and foreign faculty exchange, and guidance for U.S. student study abroad. Graduate level internships and individual reading and research courses are also provided for selected graduate and undergraduate students interested in international educational and cultural exchange vocations.

(See also the "Admission for International Students" section under "Admission Information" in this publication.)

Chaplains

Chaplains at The American University see their ministry to the campus in a broad context. Representing a wide variety of denominations and faith groups, they attempt not only to provide traditional chaplains' services of worship and personal counseling, but also to work in concert with other campus groups in making the University more responsive to the human needs of its members.

The Abraham S. Kay Spiritual Life Center houses the offices of the chaplains, together with the Chapel, a lounge, a Christian Science Reading Room, and meeting rooms. Protestant, Catholic, Jewish, Christian Science, and occasionally other religious services are regularly scheduled here, as are other campus functions of various kinds. Worship tends to be both contemporary in style and involved with the life of the campus and the world. The Buddhist chaplain conducts regular meditation sessions.

There is an open and welcome atmosphere at the center, where students feel free to come and talk with one another or with a chaplain about problems or plans or ideas. There is opportunity to work with others of different religious backgrounds in a democratic way. To be involved here is to add significantly to the meaning of one's experience at the University.

WORSHIP SERVICES

Each week during the Fall and Spring semesters (except academic holidays) worship services are held at the Kay Spiritual Life Center.

Sunday:	Roman Catholic Mass	10:00 am
		12:45 pm
	Protestant Worship	11:15 am
Tuesday	Christian Science	6:30 pm
Thursday	Contemporary Protestant Worship	10:30 pm
Friday	Jewish Sabbath Services	7:30 pm

In addition, Roman Catholic Mass is celebrated week-days and confessions are heard (hours announced).

Student Health Center

The Student Health Center, under the supervision of an affiliate of the staff of Sibley Memorial Hospital, has a medical staff of several physicians who maintain regular office hours and consultants in various specialties, such as dermatology, to whom students are referred according to need. A nursing staff provides dispensary services during day and evening office hours on week days and Saturday mornings and Sundays during the regular academic year to full-time undergraduate students and to other students who pay the health fee of \$20 a semester.

Since there are no facilities for bed patients, medical treatment is available at the student's expense at Sibley Memorial Hospital (or at another hospital of the student's choice) for serious illness or accident during the hours the dispensary is closed.

New full-time undergraduate students must submit before registration a report (on a form supplied with their admission notice from the Office of Admissions, Financial Aid, and Veterans Affairs, Programs and Services) on the results of a physical examination by a physician of their choice. A student who does not have a full medical report on file is ineligible to receive any health service other than emergency treatment.

The Student Health Center is available to all full-time undergraduate students for diagnostic purposes and the care of minor illnesses only; the infirmary has no facilities for bed patients. Students whose health problems are more complex will be referred to nearby Sibley Memorial Hospital or another hospital of their choice for treatment at the student's expense.

Dispensary Hours: 7:30 am to 10:00 pm
Monday through Friday
9:00 am to 3:00 pm
Saturday
1:00 pm to 5:00 pm
Sunday

Doctor's Clinic Hours: 8:00 am to 11:30 am
Monday through Friday
11:00 am to 1:30 pm
Saturday

Holiday Hours: Special hours are posted in advance.

Student Health Insurance Plan. All full-time students may elect to participate in the Student Health Insurance Plan. Detailed information concerning this plan is available in the Student Health Center and the Student Life Office, Mary Graydon Center. Annual renewal must be initiated by each student before the Fall deadline (one week after classes begin). No bills are sent.

Residence Halls

Space in University residence halls is available to full-time undergraduate students of The American University. The residence hall lease is binding for a full academic year (Fall and Spring semesters). The room rates are listed under the "Tuition, Expenses, and Financial Aid" section of this publication. For details on residence hall procedures and policies, as well as other services, please write to the Director of Residential Life.

ROOM RESERVATIONS

Requests for informational materials and application forms for space in University residence halls should be addressed to: Office of Residential Life, The American University, Washington, D.C., 20016.

A non-refundable \$100 room reservation deposit will be collected each year when availability of space for the student is confirmed. Since this deposit is meant to insure occupancy for the full academic year, it will be applied to the Spring semester's housing charge of the year which the housing lease covers.

Resident students must observe all regulations, specified in the contract, which they (and their parents, if students are under 21) sign, as well as University regulations. They will be held responsible for damage to their rooms during their period of occupancy, and will be billed either individually or with roommates for damages.

REFUND OF HOUSING PAYMENT

A schedule of refunds upon withdrawal from the University during the semester will be announced and will thereafter be available in the Residential Life Office. Refunds may not be made to students moving off campus before completion of their contractual obligation.

ROOM FURNISHINGS

Each room contains a bed, chest, desk, chair, and closet space for each resident. Electrical equipment brought by the students is limited to small appliances such as clocks, radios, and irons. Individual cooking equipment such as broilers and fry pans cannot be used in the rooms. There are limited kitchen facilities in the residence halls.

LINEN SERVICE

An optional linen service is available to residents. Arrangements for the service can be made after the student receives his housing assignment.

Dining Services

There is a cafeteria, snack bar, *a la carte* dining room, formal dining room, and tavern in Mary Graydon Center. The snack bar and tavern are open seven days a week except for holidays. Meal contracts are available, beginning with the first day of general registration and ending on the last day of classes (excluding vacations). Resident students are urged to buy meal contracts which are more economical than paying for each meal separately. The Food Service Department is willing to assist students in working out dietary and schedule problems. Refunds cannot be made after the first day of classes in each semester.

Student Activities

Mary Graydon Center

The hub of campus life, Mary Graydon Center houses the University dining facilities, offices of various student organizations and the administrative and service departments of the Office of Student Life. In addition, there are meeting rooms and a commuter lounge where students may gather to study and relax. The Service Information Center, located in the lobby of the Mary Graydon Center, acts as the main desk for the University. Staffed by students, it is an excellent place to direct any questions that you might have, pick up the calendar of events or purchase the local newspaper.

Student Activities Center

The Student Activities Center assists both student groups and individual students in the facilitation of learning and personal growth beyond the classroom. The staff members specialize in activities counseling, advising and coordination of organizations, providing leadership training, and personal development programs. Students in conjunction with the center staff work together in developing programs related to student life.

Student Confederation

The Student Confederation is designed to be a University-wide undergraduate student government which consists of the academic, social, and community interests of the student body. Membership is based upon full-time undergraduate students who pay the required activities fee. One of the units of the Student Confederation is the Student Union Board. It establishes and executes projects and programs relating to social and community affairs. It is composed of a Board with various departments under its jurisdiction: Community Affairs, Social Activities, Student Health and Welfare, Student Affairs, and Union Operations.

Other student government groups are: Residence Hall Association, Inter-Fraternity Council, Panhellenic Council, Inter-Club Council, Judicial System, All-Kay Community, the Social Action Council, and OASATAU (Organization of Afro-American Students at The American University).

Graduate Student Council

The Council of Graduate Students serves as the advocate for graduate students at The American University, with representation on all policy-making bodies including academic policy boards. It participates in the planning of orientation and deals with areas of concern such as medical services for graduate students. The council, composed of representatives from the schools and departments in the University, sponsors social activities and publishes a newspaper for graduate students, *The Graduate*.

Judicial System

The Judicial System, structured on the fundamentals of due process, is designed for the hearing and resolving of complaints against students and student groups. Underlying the entire program is a deep regard for discipline as a constructive element in education.

All-Kay Community

The All-Kay Community coordinates the activities of the various religious groups and plans general religious activities.

Social Action Council

The Social Action Council is dedicated to education, participation, and change. Focusing upon the problems of the city, SAC sponsors campus-wide training programs and speakers on urban affairs. SAC is involved in such projects as the Washington Area Study Project, D.C. General Hospital Program, Tutoring Program, service fraternities, a mental health program, and the Organization of Afro-American Students at the American University (OASATAU).

Athletic Program

There is intercollegiate competition for men in baseball, basketball, cross-country, golf, soccer, swimming, tennis, track, and wrestling. The American University is a member of the National Collegiate Athletic Association and the Middle Atlantic Collegiate Athletic Conference. In addition, the Student Confederation supports a team in club football, established in 1970. In 1973 The American University's basketball team was invited to the National Invitational Tournament in New York. Basketball star Kermit Washington was named All-American and Academic All-American.

Women have intercollegiate teams in basketball, fencing, field hockey, swimming, tennis, and volley ball. Intramurals for men and women include archery, badminton, basketball, billiards, bowling, football, golf, softball, swimming, table tennis, track, volley ball, and wrestling.

Debate

The intercollegiate forensics program is coordinated by the Hurst R. Anderson Forensic Society. Members of the society participate in an extensive schedule of intercollegiate events including debate tournaments and contests in individual events.

Drama

The American University Players present several classic and contemporary productions throughout the year and also schedule play readings, one-act plays, and dramatic television productions. Through work in various phases of campus theatre, points may be acquired to meet the requirements of active membership in the Green Room Players Club.

Music

Musical Groups on campus include The American University Chorale, The American University Orchestra, The American University Singers, The American University Wolf Trap Academy for the Performing Arts National Youth Orchestra and National Youth Chorus. Each of these groups presents concerts during the year, excepting The American University Wolf Trap Academy for the Performing Arts. The American University Singers schedule concert tours in addition to their campus programs. Qualified students may register in these musical organizations for credit.

Political Organizations

There is a variety of political organizations on campus which encourage participation in local and national political campaigns and sponsor lectures by members of Congress, journalists, and representatives of different political parties. Recent organizations include Young Democrats, Young Republicans, Students for a Democratic Society, Young Americans for Freedom, Student Mobilization Committee, and Young Socialist Alliance.

Professional, Scholarly, and Honorary Societies

At The American University students can strive for election to both professional and service honoraries. The American University Chapter of the National Honor Society of Phi Kappa Phi was chartered in 1964. Professional honoraries are established in the fields of biology, debate, dramatics, education, German language, graduate work, history, journalism, leadership, marketing, mathematics, music, political science, speech arts, and transportation. The service honoraries are Omicron Delta Kappa (men), Tassels and Diadem (women), and Mortar Board (women).

Publications and Broadcasting

Students publish a weekly newspaper, *The Eagle*; a literary magazine, *The American*; and a yearbook, *The Talon*. The student radio station WAMU-AM and the University station WAMU-FM broadcast daily.

Service Organizations

There are three service organizations whose University chapters are nationally affiliated. Alpha Phi Omega and Omicron Kappa for college men provide wide fellowship programs with many leadership and service opportunities. The women's service sorority, Gamma Sigma Sigma, performs a variety of services for the University and community, including assistance in the settlement houses in the Washington area.

Social Organizations

The University currently has chapters of 10 nationally affiliated sororities and fraternities. The six sororities on campus are: Alpha Chi Omega, Alpha Epsilon Phi, Delta Gamma, Kappa Delta, Phi Mu, and Phi Sigma Sigma. The fraternities are: Alpha Epsilon Pi, Alpha Tau Omega, Alpha Sigma Phi, and Phi Sigma Kappa.

Facilities and Services

Banking Facilities

The University operates no student banking facilities. However, a number of banks offering the necessary services are located within walking distance of the campus.

Office of Student Accounts

Following admission to the University, students handle all financial transactions with the University through the Office of Student Accounts located in Leonard Center.

Campus Bookstore

The campus bookstore carries all required textbooks, a large selection of nonrequired books, all necessary paper supplies and stationary, college sportswear, college jewelry and gifts, magazines, newspapers, film and toiletry items.

Mail Service

The University maintains a U.S. Post Office contract sub-station on the campus. Mail boxes are available at the Post Office for international students who reside off-campus. Mail boxes in each dormitory are furnished to resident students without charge.

Post Office hours are as follows:

Purchase of Stamps:	9:30 am to 4:00 pm
	Monday through Friday
Parcel Pick-Up	9:00 am to 5:00 pm
	Monday through Friday
	9:00 am to 12:00 pm
	Saturday

General Academic Regulations and Information

As part of the process of providing a high quality of educational experience for the student, the University is undergoing a revision of its academic requirements. As a result, the information contained in this and other sections of this publication may be revised during the academic year. Students are advised to contact their dean or department chairman to ascertain what new requirements may pertain to their individual program of study as of Fall 1974.

General Regulations and Information

Student Responsibility

The student is responsible for his behavior, academic and otherwise, at The American University. The American University expects that each student, as a mature member of the academic community, will adhere to the highest standards of personal integrity and good taste in his conduct and in his relationships with others.

To protect his academic status, a student should seek the appropriate approval of his academic program advisor. It is highly recommended that students keep their own internal records of all transactions with the University (grade reports, registration schedules and changes, incomplete forms, etc.). It is also advisable to keep copies of all tests and papers submitted in fulfillment of course work.

University Liability

Faculty, students, staff, and guests are responsible for their personal property, clothing, and possessions. The University does not carry any insurance to cover losses of such articles nor does it assume any responsibility whatever therefor.

Academic Advising and Counseling

The philosophy inherent in the educational process at The American University embraces three major principles: 1.) flexibility in academic programs; 2.) responsibility on the part of students in planning their academic programs; and 3.) adequate guidance and support from faculty and staff in helping students plan their programs.

For undergraduate students the process of academic advisement is initiated prior to the freshman year. Under the direction of the Associate Dean of the College of Arts and Sciences, the incoming student is assigned a faculty advisor based on the student's general area of interest. In schools and colleges other than the College of Arts and Sciences this faculty member would normally continue in his role as academic advisor until graduation, unless the

student transferred to a different college or school in the University. In the College of Arts and Sciences, a student's freshman advisor continues to assist him from the beginning of his academic career until he formally declares a major (by the end of his sophomore year), at which time he is assigned an advisor in his major field of study.

The American University is committed to proper academic advisement. All full-time faculty members are required to schedule regular, posted office hours of a minimum of four hours per week. Students are also welcome to meet with their undergraduate or graduate dean or counselors in their college or school when they wish to do so. Working in conjunction with the academic offices are the Counseling Center and the Office of Career Development.

The flexibility of academic programming and the need for mutual sharing of this responsibility between faculty advisors and students necessitates an on-going interchange between the student and his advisor. Prior to registration for each semester's work, the student must meet with his faculty advisor to plan his program and secure the required approval on his registration form. Any subsequent addition in the student's schedule of classes must also be approved by his advisor.

The College of Continuing Education provides non-degree students with a full-time advisement staff and the opportunity to arrange evening appointments when necessary.

Statute of Limitations

It is University policy that no student shall be involuntarily subject to regulations and academic requirements introduced while he remains continuously enrolled and in good standing in the degree program which he originally selected, if the new regulations involve undue hardships or the loss of academic credits earned to satisfy the requirements previously in effect.

The following regulations are, however, in effect for all students:

(1) A student who ceases to attend the University for a period of one term, whether voluntarily or not, is subject to all the regulations and must meet all the requirements in force at the time that he resumes his studies unless other arrangements have been agreed to by his dean, and recorded in writing prior to the beginning of his absence.

(2) A student who changes his degree objective or his college or school, whose candidacy for an advanced degree expires, or who elects to conform to regulations or requirements instituted while he is enrolled, must be prepared to complete all of the requirements and abide by all regulations in effect at the time he makes the change.

(3) Candidacy for a master's degree expires no later than three years after the date of first enrollment in the degree program. Candidacy for a doctor's degree expires no later than five years after the date of first enrollment in the doctoral program. However, the doctoral student is permitted seven years if he enters a doctoral program directly from a bachelor's degree. Renewals of candidacy for advanced degrees may involve the completion of additional courses or other appropriate work. A student who has not completed requirements in the time limits just specified must petition for re-admission if he wishes to continue. Any degree calling for additional undergraduate prerequisite courses has the statute of limitations extended in the proportion that the prerequisite requirements bear to the graduate credit requirements.

Other than as stated above, the University has no strict regulations with respect to the total amount of time in which a student may fulfill the requirements for a degree, provided that he maintains the appropriate grade point average and gives evidence of being seriously interested in the eventual achievement of his academic objective.

The University is liberal in accepting credit earned in the past. Nonetheless, a student who has not been engaged in formal study for a number of years or whose study has been intermittent, at The American University or elsewhere, must understand that he will not necessarily receive full credit for work he has completed previously simply because it is a matter of record. This applies to undergraduate students as well as to graduate students.

Class Attendance

The University considers class attendance a matter best left to the discretion of the individual classroom instructor. It is expected, however, that those faculty members who require a stated attendance policy will announce that policy at the first few class meetings each semester.

Veterans and others receiving government benefits are reminded that the paying agency may have specific attendance policies. Details of veterans benefits are available from the Veterans Counselor in the Office of Admissions, Financial Aid, and Veterans Affairs, Programs and Services.

Academic Calendar

At the present time the academic year is divided into the Fall and Spring semesters (of approximately 15 weeks each) and a Summer term (also of approximately 15 weeks) comprised of three five week sessions and two seven week sessions.

Final examinations, when given, are scheduled in the last class meeting of the academic term. The decision to give final examinations is left to the discretion of the college, school, department, or individual instructor offering the course.

The holidays and vacations usually observed by the University are as follows: Thanksgiving Weekend (Thursday, Friday, Saturday); Christmas and New Year's Day (included in the mid-semester break); Inauguration Day (every four years); Washington's Birthday; Memorial Day; Independence Day; and Labor Day. Classes continue until 11:00 pm in the evening before a holiday or a vacation period.

The official calendar for each academic term is published in detail in the *Schedule of Classes* for that term. Faculty members and students should check this source for final information about the current academic calendar. The University reserves the right to change any published calendar, including that in the *Schedule of Classes*, because of emergencies beyond its control. Information about last minute changes will be distributed as widely as possible, especially through the local news media.

The Washington College of Law traditionally follows a calendar which differs somewhat from that of the rest of the University.

Motor Vehicles

Freshman, sophomore, and junior students who reside on the campus are not allowed to bring motor vehicles which require licensing to The American University. Seniors and non-resident students who are allowed to bring motor vehicles to the campus must register them at the Office of Security, Room 3, McKinley Building, display a valid parking permit, and observe the University's parking and speed limit regulations.

Registration

Procedure

Registration is conducted on the dates specified on the academic calendar published in detail in the *Schedule of Classes*. In order to register for courses a student must:

- (1) be admitted to the University or be approved for enrollment for non-degree study;
- (2) have a social security number;
- (3) secure approval of his program of study from his academic advisor;
- (4) complete the necessary registration forms and pay his tuition and fees; and
- (5) turn in all registration forms to representatives of the Office of the Registrar.

More detailed information and instructions are published in the *Schedule of Classes*.

Advance Registration

All students, full-time or part-time, graduate, undergraduate, or non-degree, with the one exception of new international students, are eligible to advance register for the Fall and Spring semesters. No financial obligations are included in advance registration. Payment of tuition and fees must be completed by the dates announced for each semester in the *Schedule of Classes* or on the student's confirmation of course enrollment. Full details on advance registration are issued each semester by the Office of the Registrar.

A Summer sessions advance registration is available to all students who wish to take advantage of it. Details are available from the Office of Summer Sessions.

Late Registration

Late registration, subject to a \$10 fee, is permitted during the period provided in the academic calendar. No student will be allowed to register after these dates.

Auditors

A student who wishes to attend a class but who does not wish to participate, take examinations, receive a final grade, or receive credit for the course may register as an auditor. Tuition and fees for auditors are the same as those for students registering for credit.

Non-Degree Student Registration

If a student does not wish to pursue a degree program but desires to register for particular courses for which he has the necessary qualifications, he may be considered for admission to the College of Continuing Education as a non-degree student. He receives full academic credit for courses taken (unless he registers as an auditor, in which case he is not responsible for attendance or examinations and does not receive a grade or academic credit).

Changes in Registration

Add/Drop

A student who finds it necessary to add or drop a course, or change a credit value (in a variable credit course) or grade type in a course for which he is already enrolled, may make such an adjustment to his registration starting on the third day of classes of each semester. A student may not add a course after the second week of classes for each semester (excepting independent reading courses or study projects which may be added through the tenth week of classes). A student may not change his grade type in a course from or to pass/fail, or from audit to credit after the second week of classes. A student may drop a course or change his grade type in a course to audit through the fourth week of classes.

To officially effect the above, a *Course Registration Change Form* must be processed in the Office of the Register after securing the appropriate approval signatures. Detailed instructions are provided with the appropriate forms as well as in the *Schedule of Classes* for each term.

Withdrawal from All Classes or the University

A student who wishes to withdraw from courses for which he is enrolled during a given term must execute a *Withdrawal Request* form initiated in the office of his dean. This same form may be used for withdrawal from the University.

Unofficial Change in Registration or Withdrawal

Discontinuance of attendance in class or notification of a status change to the instructor does *not* constitute an official withdrawal.

International Students

International students must have any change in registration approved by the International Student Advisor or his designate.

Off-Campus Registration

The College of Continuing Education arranges for course offerings at selected off-campus locations throughout the metropolitan Washington area. These courses provide both graduate and undergraduate programs as well as non-degree study opportunities. Although the scheduling of off-campus courses follows the general pattern of the University calendar and time schedule, it does not necessarily conform to the campus semester dates in all details. Students should consult the *Off-Campus Schedule of Classes* published for each academic term.

While students may register for most off-campus courses during advance and general registration, special registrations are held at the off-campus locations. For further details, consult the College of Continuing Education.

Consortium of Universities Registration

In cooperation with Catholic University, Georgetown University, The George Washington University, Howard University, D.C. Teachers College, Gallaudet College, and Trinity College, The American University offers its qualified undergraduate and graduate degree students the opportunity to enroll for courses at these other institutions through the Consortium of Universities of the Metropolitan Washington Area. Such courses are normally limited to those which are not offered by or which may not be immediately available at The American University. Credit earned through this program is considered residence credit.

Students in an undergraduate program at The American University will be granted a quarter course unit credit for each semester hour credit of approved undergraduate study at a consortium institution. Graduate level credit, however, if taken as part of an undergraduate degree program, will be treated differently, granting a full course unit (equals four quarter course units) for a three semester hour course taken at a consortium institution.

Courses in the off-campus program of The George Washington University may not be taken through the consortium program by American University students, nor may students from other consortium universities take American University off-campus courses through the consortium program.

Independent reading courses, independent study projects, and special tutorial courses, as well as courses offered in medical, dental, nursing, or law are excluded from consortium registration.

To be eligible for this program, student must: (1) be fully admitted degree students, (2) be actively enrolled, (3) be in good academic standing, (4) be approved by the dean or department chairman of the subject matter field for which registration is requested (and who is responsible for securing approval at the cooperating institution), and (5) be approved by the Office of the Registrar.

Forms to be used for this program are available in the Office of the Registrar. Students must follow the registration procedures as published in the *Schedule of Classes* for that term, and pay the tuition rate of this University.

Consortium Libraries

Graduate degree students enrolled in one of the consortium universities or associate member colleges listed above will be eligible for direct-borrowing permits. Applications for a consortium borrowing card are to be made at the main library of the home university.

Any eligible consortium student who registers for a course at another consortium institution automatically receives borrowing privileges at the institution giving the course.

Study Abroad

Students with certain educational objectives may include in their undergraduate program study at an institution abroad. American University students may wish to consider the following options in planning their academic work.

Study Abroad Programs

This term is used to refer to a "junior year abroad" or any program at a foreign institution which is a formal part of a regionally accredited U.S. college or university, and is recorded on the transcript of that institution. For determination of regional accreditation, the publication *Credit Given* is the accepted reference.

After consultation with and approval from the student's dean, application is made directly to the institution for admission to its foreign study program. Transfer credit will be granted on the basis of the transcript from the sponsoring U.S. college or university.

Attendance at an Institution Not Affiliated with an American College or University

The student must seek approval of the institution to be visited from his dean and the Coordinator of International Admissions in the Office of International Student Admissions at The American University. (The Office of International Admissions is part of the Office of Admissions, Financial Aid, and Veterans Affairs, Programs and Services.) The Office of International Admissions will give final approval of the institution to be attended, and will evaluate the transcript on the student's return for the value in semester hours of the work taken. The Office of the Registrar will convert the semester hour value into course unit values for undergraduate students. The student's academic advisor and dean will approve the academic areas or specific courses for study. Students must be warned of the possibility that they might not receive credit for remedial language study if they are found deficient in the language of the country to be visited.

Attendance at an Institution Not Approved for Study Abroad

Should a student decide to attend a foreign institution which cannot be approved by the Office of International Admissions for transfer credit, it may be possible to arrange for "competency examinations" on his return. Specific details should be worked out prior to departure. Arrangements and agreements should be in writing between the student and his dean, with one copy of the agreement filed in the student's permanent file in the Office of the Registrar. A fee for competency examinations is charged.

Independent Study

If a student plans to be in a part of the world where there is no collegiate level institution, he may arrange prior to his departure for independent reading courses and/or independent study projects (see the "Curriculum Information" section of this publication). In this case, he would be registered at The American University for one or more of these courses, and would be in all respects an American University student, although not in residence on the campus in Washington.

Grading System

Grade Types

Grades included in the calculation of the grade point average:

- A = excellent (4 points)
- B = good (3 points)
- C = satisfactory (2 points)
- D = poor (1 point)
- F = fail (0 point)

Grades not included in the calculation of the grade point average:

- P = pass
- I = incomplete
- W = withdrawal
- L = auditor (no credit)
- N = invalid grade or no grade reported by instructor
- ZF = fail (for pass/fail registrations)

D Grades

No degree credit is earned by a graduate student for a D grade received in a graduate level course.

Pass/Fail Enrollment

For undergraduate students the grade P indicates a quality of performance no less than C on a conventional grading scale.

For graduate students the P (normally given only for independent reading courses or research projects) indicates satisfactory completion of the work at the graduate level.

For both undergraduate and graduate students a grade of P does count toward graduation.

Effective with Fall 1969, undergraduate students may take up to 50% of their courses on a pass/fail basis. (With approval of a student's major department, a greater percentage of courses may be taken on a pass/fail basis.)

The pass/fail option may be granted to non-degree students at the discretion of the Dean of the College of Continuing Education.

Removal of Incomplete

The grade of I (Incomplete) is given only to students who have made arrangements in advance with the instructor for the late completion of a course. A special form for this purpose is available from the Office of the Registrar and all deans' offices. Upon the completion of the requirements of the course within the time specified on the *Incomplete Removal Form*, the grade of I must be resolved to an A, B, C, D, or F. Completion of such work may not extend beyond the end of the semester following that in which the I was given. Unless resolved to one of the grades indicated above, the I will stand as the permanent grade. A W may not be given to remove a grade of I.

Grade Point Average

A grade point average for an undergraduate student at The American University is not the exact index of relative standing that it is at many institutions. Because of the extensive elective possibility of the pass/fail grading option, the grade point average may include only a portion of the work attempted by a given student.

The cumulative grade point average includes only those courses taken for conventional grades (A, B, C, D, F). Courses taken on a pass/fail basis are *not* included in the grade point average, nor are grades of incomplete (I).

Only grades earned at The American University are computed in the cumulative grade point average. Credits accepted on transfer from other institutions are included in the total number of undergraduate course units or graduate semester hours applicable to degree requirements, but are *not* included in the grade point average.

Freshman Forgiveness Rule

Since Fall 1963 a freshman student who, during the first two semesters of full-time study, receives a grade of F in a course may repeat the course within the calendar year thereafter or in the next two regular semesters in which the student is registered at The American University. No grades shall be removed from the record but when such a course is repeated only the grade earned the second time the course is taken shall be used in the computation of the cumulative grade point average for purposes of making decisions concerning probation, dismissal, and required average for graduation.

A part-time freshman student who during his first eight course units of study receives grades of F in courses may repeat these courses within the calendar year after the semester in which the grades of F were received with resulting cumulative grade point average benefits stated above.

Students who are re-admitted to the University before they have begun their third semester of college work may within one calendar year after their re-admission retake courses in which they received grades of F during the first two semesters at The American University with the same benefits stated above.

The foregoing regulations concerning repeated courses are not applicable to students who enter the University as transfer students, including those who enter as transfer students with freshman status (less than four course units) or to pass/fail courses.

Repetition of Courses

Whenever a course is repeated, each attempt, including the final grade, is entered separately on the permanent academic record. Unless specifically indicated to the contrary, however, only one successful attempt of a course is counted toward fulfillment of graduation requirements.

Transfer of Credit

Credits accepted on transfer from another institution are included as "advanced standing" in the total number of credits applicable to degree requirements, but grades earned in such courses are not recorded on the permanent record at The American University, and are not used in computing the average needed for graduation. Only grades earned at The American University can be used for this determination.

Academic Probation and Dismissal

A student who fails to maintain the academic average required by the University and by his college, school, and/or department is subject to dismissal. An undergraduate student who does not maintain this average but who gives evidence of probable substantial improvement may, under certain circumstances and at the discretion of his dean, be placed on academic probation for a specified period of time in lieu of being dismissed. Graduate students and non-degree students are subject to dismissal at the end of any session during which their cumulative grade point average falls below the required minimum.

A student who is dismissed may not be re-admitted to the University or any of its college and schools until a waiting period equivalent to a full calendar year after the effective date of his dismissal has passed.

Actions involving academic probation and dismissal (but not academic warnings) are entered on the student's permanent record and the removal of these entries after they are made is not authorized.

An undergraduate student who fails to achieve and maintain a 2.00 (C) grade point average during his first two semesters of full-time study (or the equivalent part-time study) but whose cumulative grade point average is 1.75 or above, may be placed on academic probation for one year. Academic probation is an action customarily taken only in the first two years of full-time study (or the equivalent amount of part-time study) for undergraduates. Dismissal may be anticipated by any student who in his third or fourth years of full-time study (or the equivalent amount of part-time study) falls below a C in his cumulative grade point average, or whose average in any semester drops to a D or below.

Waiver

On the basis of tests and records the University may permit undergraduate degree students to waive all or part of the undergraduate University requirement in composition and reading.

Waiver examinations in foreign languages are given at the University during the course of the school year.

When students transfer courses which are essentially "continuation courses" the grade earned in the final semester of such courses will determine whether the entire sequence is creditable for University requirements purposes only. (This regulation shall not be interpreted as granting credits for courses transferred with a grade below B or C according to the institution from which the courses are transferred.)

Transcripts

A student may obtain a transcript of his academic record from the Office of the Registrar. There is a \$2 fee for each official transcript.

The University will not issue a transcript which reflects only a part of a student's record, nor will it make copies of transcripts on file from other colleges and universities.

Transcripts will be released only on the written signature request or release of the student concerned.

Certification of Enrollment

The Office of the Registrar supplies, when necessary, and only upon request of the student involved, certification of certain academic data concerning the records and status within the University of currently enrolled students. These certifications are used for HEW and scholarship forms, employment applications, etc. They are not to be confused with transcripts of the student's permanent academic record.

Name Change

The name of a student entered on the permanent records of the University cannot be altered (except for the correction of misspellings) unless the name has been legally changed, and in such cases the request for the change must be accompanied by a copy of the court order or other official document which will be retained in the student's file.

Completion of Degree Requirements and Commencement

The University confers degrees and issues diplomas at the end of the Fall (December graduation), Spring (May graduation), and Summer (August graduation) terms. A formal commencement ceremony is held only in May at the end of the Spring semester. Diplomas are mailed to students completing degrees at the end of the Fall and Summer.

Application for Graduation

Candidates for degrees are to file an *Application for Graduation Form* in the graduation clearance section of the Office of the Registrar no later than the date listed below for the particular graduation:

<i>Graduation</i>	<i>Application Deadline</i>
August 1974	April 1, 1974
December 1974	June 1, 1974
May 1975	October 1, 1974

All students are urged to consult the academic calendar published in the *Schedule of Classes* for each term. Graduate students are especially advised to consult the more detailed information about comprehensive examinations, thesis and dissertation deadlines, etc., available from academic offices and included in the academic calendar in the *Schedule of Classes*.

Certification of Students for Graduation

Only after application for graduation has been made can the Office of the Registrar begin processing the necessary information for final certification for graduation. Students who fail to complete all their requirements by the end of the term for which they applied to graduate will not be certified and graduated for that date. Such students *must re-apply for graduation at a later date*.

Undergraduate Degree Requirements

The fundamental graduation requirement for the bachelor's degree is a total of 32 course units. (For purposes of curriculum planning and transfer credits, a course unit is deemed equivalent to four semester hours.) In addition to this requirement, the student must follow the appropriate requirements mentioned below as well as those stipulated by the individual college, school, or department of his degree major program.

Colleges and schools offering the B.A. degree may require no more than fifty per cent of the total course units taken in major and major-related fields. If the teaching unit requires more than fifty per cent of a student's courses in major and major-related fields, or if the student through his selection of courses exceeds fifty per cent in major or seventy-five per cent in major and major-related fields, the degree offered to the student shall be a B.S. or some comparable degree other than the B.A.

University Requirements

Effective Fall 1970, the University abolished the distribution requirements in the social sciences, the natural sciences, and the humanities areas. The remaining undergraduate requirement is the English requirement as described below.

Students throughout the University are extended the option of enrolling in English Composition and Reading I and II (ECR), Selected Human Problems I and II, or special Literature Department seminars. These courses are not equivalent courses, i.e., enrollment in one course would not make enrollment in another redundant. They are, rather, alternative courses in the sense that satisfactory performance will certify the student's writing ability. *Any two of these courses taken in any order will serve to satisfy the University English requirement.* The reasoning behind this view of the relationship is that the ECR courses are explicitly designed to guide the development of the student's writing ability; Selected Human Problems and the seminars, on the other hand, are interdisciplinary courses with their own well-defined syllabi which include no explicit training in writing techniques. They do, however, require an amount of written work comparable to the amount required in ECR. Therefore, the evaluation of the student's performance in these courses contains implicit evaluation of his writing ability. The increased flexibility provided by the above options allows the student to adjust his University English requirement to meet his individual needs.

Degree Major and Major-Related Requirements

Each undergraduate student must complete a minimum of six course units (no less than four of which must be earned at The American University) as approved by an advisor designated by the department chairman or dean in charge of his degree major field. No course in which a grade of less than 2.00 (C) is earned may be counted among the courses acceptable for his major. A student who wishes to major in two separate fields or subjects will be expected to complete the degree major course unit credit requirement specified for each.

An undergraduate degree student must ordinarily complete certain course work in approved areas related to his degree major. He may also be required to complete course work (or establish his level of proficiency in some other approved way) in tools deemed desirable for his major (e.g., accounting, languages, statistics, or others). These two courses may be part of, or in addition to, the requirement with respect to related courses, at the option of the college, school, or department.

The various colleges, schools, and departments may establish other requirements which must be met by each of its candidates. Consult individual academic listings in the "College, School, and Departments" section of this publication.

Electives

The difference between the requirements detailed above and the minimum of 32 course units required for an undergraduate degree may be applied as electives in fields of interest to the student for which he has the necessary qualifications.

Residence Requirements

To be eligible for an undergraduate degree from The American University, an undergraduate student must complete in residence at The American University a minimum of eight course units out of his last sixteen units toward a degree. To satisfy this requirement, *the student*

must be enrolled as a degree student at the time that he takes and satisfactorily completes these course units. Non-degree course work cannot be applied toward the satisfaction of the residency requirement.

An undergraduate student who transfers from another institution with advanced standing in the field of the degree major is required to do a minimum of four course units at the upper-level in the college, school, or department from which he has applied for graduation. More may be required by the individual department chairman or dean.

Transfer of Credit

Students who take courses in other colleges and universities for transfer credit to The American University must receive prior approval in writing from their advisors and the dean of their college. This work is usually undertaken during the summer or as part of an overseas study program ("junior year abroad"). Credit may be denied if the student does not receive prior permission. (See the "Study Abroad" section under "General Information and Regulations.")

Undergraduate Leave of Absence

Undergraduate students desiring some kind of leave of absence for reasons other than study at another collegiate institution should request an appointment with their dean. At the dean's discretion, based on whether or not it seems desirable to guarantee the student an automatic re-admission, the dean will issue a permit for leave of absence. One copy will be given to the student, one retained in the dean's office, and one forwarded to the Office of the Registrar for filing in the student's folder. This permit will specify a limitation of one year maximum automatic re-admission to the same undergraduate program. It will also specify that the permit becomes void if the student attends any domestic or foreign collegiate institution during the period of the leave. In such instances, the student should obtain from his dean the *Permit to Study at Another Institution* prior to leaving The American University.

Normal Academic Load and Full-Time Status

An undergraduate student admitted to and enrolled in a degree program normally carries each semester four course units to satisfy the required minimum of 32 course units for the baccalaureate degree. In any given semester, such a student may carry a minimum of three course units and be classified and/or certified (for veterans benefits, financial aid, etc.) as full-time for that semester. The additional course units must be made-up through Summer enrollment or by an overload (if approved) in the following (or previous) semester in order to remain in normal progress annually toward the degree, as often required by the regulations of government agencies. The student is urged to become familiar with such regulations. Four and three-quarter course units is considered the maximum load without special approval.

Academic Overload

An undergraduate student desiring five or more course units in a given semester is required to have the approval of his academic advisor and the appropriate dean. The approval is for the overload in general, not permission for a specific course. Generally, such approval will be granted when the student ranks within the upper twenty-five per cent of the undergraduate student body based on his cumulative grade point average in work taken at The American University. It is also understood that the student should have no incomplete grades to be made-up.

Except for seniors, no student will be allowed to register for a fifth course unit until the general registration period.

Course Units and Determination of Credits

Effective Fall 1970, undergraduate graduation requirements were changed from a minimum of 120 semester hour credits to a minimum of 32 course unit credits. Under the course unit system, semester hour credit is no longer assigned to undergraduate courses. For purposes of transfer evaluation, however, it is recommended that a course unit receive four semester hour credits. Students registered at The American University prior to Fall 1970 or those contemplating transfer to The American University should use the following schedule in equating previously earned semester hour credits to the course unit credit system:

15 semester hours = 4 course units
 30 semester hours = 8 course units
 45 semester hours = 12 course units
 60 semester hours = 16 course units

75 semester hours = 20 course units
 90 semester hours = 24 course units
 105 semester hours = 28 course units
 120 semester hours = 32 course units

Semester hour credits less than 15 or in excess of a multiple of 15 are converted to course unit credits according to the following scale:

1 hr $\frac{1}{4}$	2 hrs $\frac{1}{2}$	3 hrs $\frac{3}{4}$	4 hrs 1	5 hrs $1\frac{1}{4}$	6 hrs $1\frac{1}{2}$	7 hrs 2	8 hrs $2\frac{1}{4}$
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9 hrs $2\frac{1}{2}$	10 hrs $2\frac{3}{4}$	11 hrs 3	12 hrs $3\frac{1}{4}$	13 hrs $3\frac{1}{2}$	14 hrs $3\frac{3}{4}$	15 hrs 4
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Graduate level courses at The American University remain expressed in the semester credit hour system. Some of these offerings are available to advanced undergraduate students. In such enrollment cases, the above conversion scales do not apply; see "Credit Values" under the "General Curriculum Information" section of this publication.

Class Standing

The class standing of an undergraduate student is determined at the end of each academic year on the basis of the number of course units satisfactorily completed during that year and the preceding Summer sessions (including those accepted by the University as transfer credit, although these are not calculated into the student's grade point average. It is tabulated by the Office of the Registrar as follows:

0 through 7 completed course units = freshman standing
 8 through 15 completed course units = sophomore standing
 16 through 23 completed course units = junior standing
 24 through 32 completed course units = senior standing

Undergraduate Students Enrolled for Graduate Degree Credit

A senior student with the permission of his department chairman or dean may enroll in specifically approved graduate courses not required for his undergraduate program. *Such courses must be designated in writing as graduate degree credit at the time that the student registers for them. A copy of this written agreement must be placed in the student's folder in the Office of the Registrar. Retroactive application of these credits for such purpose is not permitted.* Credits for these courses may be applied toward meeting the course requirements for a graduate degree after the student has been awarded his undergraduate degree and provided that he is then admitted to a graduate degree program.

No course or courses may be counted as credits toward both an undergraduate and a graduate degree. Credits may apply to only one or the other degree.

Declaration of Undergraduate Degree Major

By the end of the sophomore year (completion of 15 course units), if not before, each undergraduate student must choose and declare an academic major. Formal declaration of the major is required on a form available from the dean's, departmental, or Registrar's Office. *Admission to the University in an undergraduate program does not automatically constitute admission to a major program* (except in the School of Nursing). Acceptance is official only when specific approval has been received from the department or program chairman or his designate and is recorded by the Office of the Registrar.

Changes in College, School, or Major

A student who wishes to change from one college or school to another, or from one major to another must receive the permission of the dean and/or department chairman in charge of the program to which he wishes to transfer. This must be done on forms available from the dean's office or departmental office and filed in the Office of the Registrar. A change in college, school, or major affiliation, when approved, does not become effective until the beginning of the next semester. It does not become effective if the student becomes subject to suspension or dismissal for failure to maintain University minimum standards.

Double Majors

A student can complete a double major by satisfactorily passing the required major and major-related course work required by the two departments and/or schools.

If the double major is pursued in two schools, the student must designate at the time of his declaration of the two majors which single school he will be registered in and graduated from. He will need to satisfy the general school requirements (e.g., College of Arts and Sciences language requirement) of that single school only.

A student may apply the same course to both major programs if it fits into both sets of requirements.

If a student is majoring in two recognized majors in distinct departments or schools, and if neither teaching unit has required him to take more than fifty per cent of his courses in the major and major-related fields, and if he has not through his own selection of courses exceeded fifty per cent in either major or, counting each major and its related fields separately, exceeded seventy-five per cent in one of his majors and those areas defined as related fields in that major, he has satisfied the requirements for a B.A. degree. If the student does not meet these conditions, he should receive a B.S. or some comparable degree.

Two Undergraduate Degrees

A student may qualify for two undergraduate degrees if he satisfies both major and major-related requirements within two departments and/or schools and accrues a minimum of 40 course units.

Dean's List and Graduation Honors

Undergraduate students are eligible to be graduated with honors provided that they have completed at least one-half, i.e., at least 16 of the course units required for their degree in residence at The American University and have achieved the requisite grade point average. Up to four course units but no more than four course units taken on a pass/fail basis may be included in American University work applied toward honors, but these courses will not be computed in the grade point average.

Undergraduate honors and the grade point averages required are as follows:

<i>Summa cum laude</i>	—3.90 or higher
<i>Magna cum laude</i>	—3.75 through 3.89
<i>Cum laude</i>	—3.50 through 3.74

The term "honors" should be applied only to programs in the student's degree major field, whether those programs be departmental, school-wide, or interdisciplinary in character.

Departmental honor programs may be instituted at the option of the colleges and schools. In the College of Arts and Sciences, students selected for departmental honors programs in their major subjects enroll during their junior and senior years in up to three (or four) special projects and upon successful completion are recommended to receive departmental honors.

Each college or school may issue a "dean's list" of its undergraduate honor students each session. The minimum standard for inclusion in such a list is a 3.50 grade point average for the term earned in a full-time undergraduate program totaling not less than four completed course units.

Honors earned through grade point averages are listed in the commencement program and on the diploma. General and departmental honors are listed only in the student's permanent records and in the commencement program.

Academic Probation and Dismissal

An undergraduate student who fails to achieve and maintain a 2.00 (C) grade point average is subject to dismissal. A first-year undergraduate student whose cumulative grade point average falls below 2.00 may, under certain circumstances, be continued on probation during a second year. In the determination of the number of hours completed, credits accepted by transfer from another institution are included, but in the determination of the cumulative grade point average only grades earned at The American University are counted.

Freshman Forgiveness Rule

A freshman student who, during the first two semesters of full-time study, receives a grade of F in a course may repeat the course within the calendar year thereafter or in the next two regular semesters in which the student is registered at The American University. No grades shall be removed from the record but when such a course is repeated only the grade earned the second time the course is taken shall be used in the computation of the cumulative grade point average for purposes of making decisions concerning probation, dismissal, and required average for graduation.

Graduate Degree Requirements

These degree requirements are currently undergoing revision by the University Senate for later application. Candidates for graduate degrees are advised to contact their own particular dean or department chairman for subsequent developments and more detailed information.

Candidates currently enrolled for graduate degrees will be subject to those academic regulations in effect at the time of their admission.

Transfer of Credit

Credit may be considered for transfer at the time of admission, provided the admission is not provisional, or at advancement to candidacy, or other specific times established by the teaching unit. A maximum of six hours of graduate credit earned with a B or better may be transferred into a master's degree program. A maximum of 30 hours of graduate credit, earned with a B or better, may be transferred into a doctoral program. Transfer of credit is subject to the approval of the appropriate department chairman and dean.

Evaluation of Graduate Students

The minimum cumulative grade point average required to maintain good standing in graduate study at The American University at both the master's and doctor's levels is 3.00 (a B average on a four point system) in all graduate courses attempted in residence at The American University. Individual colleges, schools, or departments may require higher averages.

Advancement to Candidacy

Each dean or department chairman may at his option require formal advancement to candidacy and determine the nature of the advancement procedure he will use. Advancement to candidacy may be described as a point in the student's academic progress during which the teaching unit formally evaluates his abilities for continuation in his degree program.

Credit and Residence Requirements

Master's Degree

At least 30 semester hours of graduate work, including a research requirement of six semester hours, is necessary for the completion of the Master of Arts and Master of Science degrees. At least 24 of these hours, including the research requirement, must be completed in residence at The American University.

Doctor's Degree

The requirement is the equivalent of 72 semester hours of graduate work.

(1) For students who complete their entire graduate program at The American University, the requirement is the equivalent of 72 semester hours of graduate work which may consist of 48 to 60 hours of course work and 12 to 24 hours of directed study on the dissertation.

Students who receive a master's degree at The American University and who desire to continue for a doctoral degree must apply to the department through the Office of Admissions, Financial Aid, and Veterans Affairs, Programs and Services for admission into the doctoral program. Attainment of a master's degree does not promise admission as a doctoral student.

(2) For students admitted with a master's degree earned elsewhere, the requirement is at least 30 hours of graduate work in residence and 12 hours of directed study on the dissertation, exclusive of any work taken at The American University prior to application to the doctoral program.

(3) Students admitted without a master's degree must first attain doctoral standing and then must complete a minimum of 30 hours of graduate course work in residence and 12 hours of dissertation seminar, as required by their college, school, or department.

(4) Once a student has been admitted to graduate work toward a degree he must obtain prior permission from his dean or department chairman in order to take graduate work at another institution which will count toward his degree objective at this University. Otherwise, such work will not be counted toward a degree at this University. Such work also may conflict with residence requirements.

Academic Load

A graduate student is considered full-time when carrying nine or more semester hours. In certain instances an academic teaching unit may certify a graduate student as full-time even though he carries fewer than nine hours. Students are referred to the appropriate dean or department chairman for details.

In the Summer sessions, because of the combination of five-week and seven-week sessions, there are various possibilities of full-time status. Normally, six semester hours during any five-week session is considered full-time. Students are referred to the *Summer Schedule of Classes* for current definitions of full-time status during the Summer.

Prerequisite Undergraduate Credits

Credits earned in undergraduate courses taken as required prerequisites for other courses by graduate students may not be counted toward satisfying the total credit requirement for a graduate degree and grades earned in them are not used in calculating the student's grade point average.

Tools of Research

Each dean or department chairman specifies the tool or tools of research required, if any. (See the individual college, school, or department section in this publication for the tools that are required.) Tools relate to research in the discipline in which the student is studying. The student's satisfaction of tool requirements is certified by the teaching unit, which may sub-contract the examination or do it itself. Normally, such tool of research requirements are satisfied before the student attempts the thesis, dissertation, or related studies.

Examination Requirements

Comprehensive and other examinations (both written and oral) are designed to test mastery of both broad and specialized fields. They presuppose more reading and research in the fields than would normally be expected in a series of lecture-discussion courses. They are expected to evoke not only knowledge of the subject and appropriate professional literature but also to express intelligently comprehensive concepts and fundamental issues.

Master's Degree

At least one comprehensive examination, the nature and scope of which is determined by the student's teaching unit, is required.

Doctor's Degree

A qualifying examination must be taken before completion of 24 semester hours of course work in a doctoral program at The American University. If a student does not pass the qualifying examination he may, at the discretion of the teaching unit, subject to appeal to the Committee on Graduate Studies, be permitted a retake. Such a retake must be completed within nine months.

At least four comprehensive examinations will be required, at least one of which will be

an oral examination. At least two comprehensive examinations must be written and must be taken within one year following the completion of the residence requirements. The qualifying examinations and/or master's comprehensive examination, if taken at The American University, may be credited at the discretion of the teaching unit toward meeting the comprehensive requirements for a doctoral degree.

An oral examination on the dissertation is required also.

Examinations

Examination Timetable

For both master's and doctoral degree students, the dean or department chairman (or designated representative) determines the time and eligibility for taking the examinations.

Application to take comprehensive examinations is made to the teaching unit on a standard form available from that office. After approval is obtained, the student pays the appropriate fee at the Office of Student Accounts. In most cases, students should plan to apply during the first week of classes of the semester in which they plan to take the examinations.

Examination Fields

Although proposed fields for comprehensive examinations may have been planned early in the graduate student's academic career, it is possible to change the fields up until the time the student actually submits the application for admission to the comprehensive examinations. Each college, school, or department offers its current list of standard comprehensive examination fields, including certain "core" fields and areas in which candidates in particular degree programs must present themselves for examination. (A list of these fields is presented in the respective sections of this publication.) A student may choose from the list (including the required core) the ones which are appropriate to his own interests and objectives.

In some disciplines, it is possible to choose a field outside the major area of interest. In choosing such a field, however, the candidate is required to choose one which is available at the time of his application to the comprehensive examinations.

Examination Grading

Normally, each comprehensive examination written by a candidate is read by two readers and is rated distinction, satisfactory, or unsatisfactory by each reader. In order to pass the examinations the candidate must obtain at least satisfactory from both readers in each of the fields in which he was examined. In the event of a disagreement in the ratings between readers as to whether or not the candidate should pass, a third reader is appointed to break the deadlock.

Examination Grading Variations

Each individual dean or department chairman may elect to determine a different system of grading comprehensive examinations for his own candidates. Consult the specific college, school, or department of your major interest to ascertain what system is used. The system described above is the traditional one in use throughout most of the University.

Re-Examination

In the event that a candidate for a graduate degree fails part or all of his examinations (whether qualifying or comprehensive) he may be permitted a second attempt. The second attempt must be made within nine months for a qualifying examination and within two years for a comprehensive examination. The nature and extent of the examination or examinations to be retaken is determined by his teaching unit. However, no more than one re-take is allowed.

Theses and Dissertations

Thesis and Non-Thesis Options

For master's candidates the thesis is expected to demonstrate the student's capacity to carry on original and independent research. Some colleges, schools, and departments of the University offer the opportunity to substitute a case study, an in-service project, an original creative work, or specific advanced research courses, in lieu of a thesis for the master's degree. In every such case, the thesis seminar or other accepted alternative must be considered part of the residence requirement for the master's degree and must meet the standards set forth by the individual colleges, schools, and departments as well as those of the University.

No academic credit is given for the master's thesis unless the student registers for the thesis seminar. However, he should not enroll for this seminar before he is ready to start work on his formal thesis proposal or the thesis itself.

Traditionally, an advisory committee is appointed for each candidate working on a thesis. The committee may be composed of one, two, or three members. An oral examination by this committee is often required. Suggestions for revision may be made as conditions to be met before members will sign the title page of the thesis. If the chairman of the thesis committee or the department chairman certifies failure to complete a satisfactory thesis, the student may be dismissed from the University.

A student who writes a thesis must adhere to the required form and content for the proposal and to the other procedures described in detail in the published guides which may be received from the office of the dean of his college or school.

Students electing the non-thesis option should obtain specific departmental requirements from their teaching units. The University minimum requirement is two research-oriented courses at the xx.600 or xx.700 level. Only grades of A or B in these courses will satisfy the non-thesis option.

Dissertation

Capping the requirements for achieving the doctorate is the dissertation, together with the required oral examination of the dissertation by the student's teaching unit. Normally, the candidate must have completed all other academic requirements for the degree before the oral examination can be held.

When a candidate is declared ready to proceed to the dissertation he must submit a dissertation topic proposal reporting the results of his preliminary research. This proposal is expected to contain, among other things, a concise statement of the major problem of research and of related supporting problems, the data to be used, a selected bibliography, a statement of the probable value or importance of the study, a brief description of the methods to be used, and a preliminary outline of the dissertation in some detail.

After approval of the proposal by the candidate's advisor, it is presented to the dean of his college or school for final approval. Acceptance of the proposal indicates that the topic is a suitable one and that the dissertation will be accepted if developed adequately by the candidate. Acceptance of a dissertation topic proposal under no circumstances commits any department or school or the University to acceptance of the dissertation itself. The University will take responsibility for directing research only in fields and problem areas which its faculty members feel competent to handle.

A dissertation advisory committee of three to five persons is normally appointed by the candidate's academic dean for each candidate undertaking a dissertation. After the draft manuscript has received the tentative approval of all members of the committee, the committee chairman arranges for the oral examination. This covers the dissertation itself and the general field in which it lies. All members must agree that the candidate has passed the oral examination. Conditions to be met before final acceptance of the dissertation may be specified without necessarily holding a second oral examination.

If the chairman of the dissertation committee or the department chairman certifies failure to complete a satisfactory dissertation, the student is automatically dismissed from the University.

Publication

It is the policy of the University to encourage publication of dissertations, case studies, and theses, with acknowledgment to the University. In the event substantial alterations are made before publication, this fact must be noted in the prefacing statement which gives acknowledgment.

Final Manuscript

Regulations concerning the form and preparation of the final manuscript, abstract, copyright, and so forth may be obtained from the dean or department chairman offering the doctorate. Certain deadline dates, e.g., for submission of proposals, for submission of drafts, and for holding oral examinations, are found in the *Schedule of Classes* published for each academic term, and must be met if a candidate expects to receive his degree at the following May commencement.

The ABD Status

Candidates for the doctorate who have completed all the requirements for that degree except the dissertation (the so-called "all-but-dissertation" status) and who entered a doctoral

program without a master's degree may be awarded the appropriate master's degree from the University in the field in which their doctoral work was accomplished.

Maintaining Matriculation, Required Graduate Student Registration

The University requires *students who have been admitted to graduate degree programs* to register each year for the entire academic year (Fall semester to Fall semester) until they complete their entire program. Accordingly, those who do not enroll in any courses or research seminars during the Fall semester must register in the Fall of each year under the course number designation xx.099 *Maintaining Matriculation* (no credit; for complete course number, consult the course listings under the teaching unit appropriate to the student's degree major) and pay the required non-refundable fee. A subsequent Spring and Summer registration does not invalidate the necessity for registering in the Fall semester. The current fee is \$50.

A student in this category is entitled to use the library of the University and to consult with members of the faculty. A graduate student who does not so register, indicating his continued interest in completing his degree objective, may be subject to delay in his work or may be denied the right to continue his studies.

A student who registers in the Fall for comprehensive examinations is considered to be registered for that academic year and does not need to register for the xx.099 *Maintaining Matriculation*. His only fee is his comprehensive examination fee. However, he should process a registration form with the course number designation xx.098 to indicate his continued active status on his permanent academic record. Course number xx.098 carries no fee.

Statute of Limitations

All work for the master's degree must be completed within three years from the date of the first registration in a graduate degree program.

All work for the doctorate must be completed within five years from the date of the first registration as a doctoral student. However, the student is permitted seven years if he enters a doctoral program directly from a bachelor's degree.

A student who has not completed requirements in the time limits specified above must petition for re-admission if he wishes to continue.

Any degree calling for additional undergraduate prerequisite courses has the statute of limitations extended in the proportion that the prerequisite requirements bear to the graduate credit requirements.

Renewals of candidacy for advanced degrees may involve the completion of additional courses or other appropriate work.

General Curriculum Information

(For individual course listings with titles, credit values, and descriptions, consult "Colleges, Schools, and Departments" section of this publication.)

Course Numbers

Each course is designated by a five-digit number. The digits to the left of the decimal point represent the department, school, or college offering the course.

03.xxx—Anthropology
19.xxx—Economics

The last three numbers identify the level of the course as follows:

xx.001–xx.099—no degree credit
xx.100–xx.499—undergraduate degree credit
xx.500–xx.599—graduate course to which advanced undergraduate students may be admitted
xx.600–xx.799—graduate course to which undergraduate students normally are not admitted.

(Off-campus courses carry either the letter "O" or "C" as a prefix to the department designation code. Refer to the Off-Campus Bulletin for further details.)

Course Number Department Designation Codes

College/School/Department	Designation Code
Arts and Sciences, College of	
American Studies	02.xxx
Anthropology	03.xxx
Art	05.xxx, 07.xxx
Biology	09.xxx
Chemistry	15.xxx, 27.xxx
Communication	17.xxx
Economics	19.xxx
Education	21.xxx
History	29.xxx
Jewish Studies	34.xxx
Language and Foreign Studies	36.xxx, 37.xxx
Literature	23.xxx
Mathematics and Statistics	41.xxx, 69.xxx
Music	43.xxx, 44.xxx
Performing Arts	67.xxx
Philosophy and Religion	47.xxx
Physical Education	49.xxx
Physics	51.xxx
Psychology	57.xxx
Sociology	65.xxx
Wolf Trap Program	48.xxx
Business Administration, School of	10.xxx, 11.xxx, 12.xxx
Continuing Education, College of	
Church Management	72.xxx
English Language Institute	74.xxx
Pride/American University Institute	71.xxx
Public Relations	17.xxx, 72.xxx
Interdisciplinary Studies	75.xxx
Law, Washington College of	39.xxx
Learning Center, University	79.xxx
Nursing, Lucy Webb Hayes School of	46.xxx
Public Affairs, College of	
Administration of Justice, Center for	73.xxx
Government and Public Administration, School of	52.xxx, 53.xxx, 54.xxx, 56.xxx
International Service, School of	33.xxx
Technology and Administration, Center, for	55.xxx

Credit Values

Effective Fall 1970, the University changed undergraduate degree requirements from 120 semester hours to 32 course units. Course units, expressed in decimal notation in the course listings in this publication, can be in the following amounts: quarter course (c 00.25), half course (c 00.50), three-quarter course (c 00.75), full course (c 01.00), etc., at quarter gradations through quadruple course (c 04.00). All undergraduate-level course offerings, i.e., from the xx.100 level through the xx.400 level, are valued in course units.

For the purpose of transfer evaluation, it is recommended that a full course unit receive four semester credit hours.

Graduate courses, from the xx.500 level through the xx.700 level, continue to be valued in the traditional semester hour method. Graduate courses are also expressed in decimal notation: one semester hour (s 01.00), two semester hours (s 02.00), three semester hours (s 03.00), etc. There are no fractional semester hour credits.

For undergraduates permitted to take graduate-level courses, the general principle followed is to allow one course unit for a three- or four-semester hour credit course.

Course Descriptions and Syllabi

Descriptions of individual courses are given with the course listings in the "Colleges, Schools, and Departments" section of this publication. Course syllabi are available at the Reference Desk in the University Library.

Course Prerequisites

Many courses call for a previous minimum background of knowledge, as indicated by the preliminary descriptions as *prerequisites*. Titles are those of The American University courses; equivalent courses satisfactorily completed at other accredited institutions also meet prerequisite requirements by transfer credit.

Administrative officers may sometimes waive prerequisites on the basis of experience and professional achievement. Where done, the student should secure the syllabus of the prerequisite course and complete the readings on his own. This will minimize the problem of gaps and out-of-date information.

Prerequisites mean the instructor will not use class time to go back and teach the material of the preliminary courses. Students are held responsible for entering the class already possessing the required competence. Thus, prerequisites warn students of the knowledge they are to bring with them in order to meet the expected standards of performance. Failure to possess this background can endanger the student's good standing and his ability to continue in the school. Therefore, students may be required to drop the course in question and register for the prerequisite course or courses instead.

Independent Reading Courses and Study Projects

An *Independent Reading Course* is defined as a course in which a student by prearrangement with an instructor reads a body of material with a minimum of formal instruction.

An *Independent Study Project* is defined as a course in which a student does research on a topic agreed upon by the student and the instructor, or engages in any mode of education deemed worthy of a student's efforts by the instructor responsible for the course. This may include teaching undergraduates on a guided basis, participation in educational programs off campus, travel under stipulated conditions, and so forth. In essence, this is a vehicle enabling the student to range as far as his interest and preparation carry him, subject to the approval of a faculty member and his school or department.

It is expected that registration in these courses will be at the regular registration period for a semester or summer session. It is possible, however, to register in an independent reading course or study project through the end of the ninth week of a fall or spring semester or second week of a summer session. (A student desiring to begin such a course after the deadlines may do so informally, but he must register for the course at the beginning of the following semester thereby including the course in that semester's course load and tuition computation.)

These courses may be taken by undergraduates for one-quarter through two course units credit and by graduate students for one through six semester hours credit, the exact amount to be determined at the time of registration. These courses must be completed normally by the end of the semester of registration but, in no case, later than one calendar year from the date of registration.

A student registering in an independent reading course or an independent study project must complete a special form for that purpose. This form is available in the various teaching unit offices or at the Office of the Registrar. Approval of the department chairman is required on this form. In the event that the project duplicates a concurrently scheduled course, the approval of the dean of the school is also required.

Students registered in independent reading courses or study projects may be assigned conventional grades or, if they are undergraduate students, grades of pass or fail, according to agreement made at the time of registration. Once assigned, a grade of pass or fail cannot be changed to a conventional grade or vice versa.

It is expected that the student will meet periodically with the instructor to review his progress. If the student is not in Washington, it is assumed that he will be in correspondence with the instructor concerning his progress. Normally, the instructor will be expected to be residing in Washington while he is supervising one of these projects.

Students permitted to enroll in independent reading courses and study projects should enter on their registration cards the code of the department (01.xxx-75.xxx) which will supervise their work, followed by the number of the particular course to which they are being admitted. See below:

Undergraduate Level

- xx.390 Independent Reading Course (c 00.25 through 02.00)
- xx.490 Independent Study Project (c 00.25 through 02.00)
- xx.491 Internship (c 00.25 through 02.00)
- xx.398, xx.399 Departmental Honors Junior Year (c 01.00)
- xx.498, xx.499 Departmental Honors Senior Year (c 01.00)

Graduate and Advanced Undergraduate Level

- xx.590 Independent Reading Course (s 01.00 through 06.00)
- xx.690 Independent Study Project (s 01.00 through 06.00)
- xx.691 Internship (s 01.00 through 06.00)

Non-Recurring Selected Topics Courses

A *Selected Topics Course (non-recurring course)* is defined as any course or project involving a group of students on a non-recurring and/or experimental basis. This will include all courses which do not form a regular part of the curriculum of a department or school. In essence, this is a vehicle which will enable the faculty to offer courses on a single-time basis. It is also a vehicle for experimentation within the curriculum. It is distinguished from independent study projects in that it is open to groups of students under the same conditions by which a student registers for any course.

Departments making use of a non-recurring, selected topics course will list such a course in the *Schedule of Classes* using the code of the department (01.xxx-75.xxx) followed by the code of the course (see below) and the title of the course.

Undergraduate Level

- xx.196 Selected Topics (non-recurring) (c 00.25 through 02.00)
- xx.296 Selected Topics (non-recurring) (c 00.25 through 02.00)
- xx.396 Selected Topics (non-recurring) (c 00.25 through 02.00)
- xx.496 Selected Topics (non-recurring) (c 00.25 through 02.00)

Graduate and Advanced Undergraduate Level

- xx.596 Selected Topics (non-recurring) (s 01.00 through 06.00)
- xx.696 Selected Topics (non-recurring) (s 01.00 through 06.00)
- xx.796 Selected Topics (non-recurring) (s 01.00 through 06.00)

Schedule of Classes Information

Details of those courses offered for each academic term are announced by the Office of the Registrar in the *Schedule of Classes* which is available from the Office of the Registrar, from the Office of Admissions, Financial Aid, and Veterans Affairs, Programs and Services, and from academic offices.

Class Periods

Day classes, except those on Wednesdays and Saturdays, ordinarily meet two days a week for 75 minutes a meeting. Wednesday and Saturday classes ordinarily meet once a week for two hours and 30 minutes.

Evening classes ordinarily meet once a week for two hours and 30 minutes or twice a week for 75 minutes a meeting.

Classes at the xx.600 and xx.700 course levels may, in a number of cases, meet for a total of two hours a week at the discretion of the teaching unit concerned.

Courses involving laboratory, studio, discussion groups, or workshops may vary from the above schedules. Independent reading courses, study projects, internships, and similar types of study opportunities meet according to the special arrangements with the school, department, or faculty members concerned. Students are advised to note carefully the meeting times listed in the *Schedule of Classes* for each academic term.

Emergency Cancellation of Classes

In the event of an emergency, University classes are cancelled when the District of Columbia and United States Government authorities close District and Federal offices. Otherwise, unless cancellation of classes under special circumstances is announced publicly through the media, classes will meet. When cancellation of classes is necessary, instructors are

expected to arrange for additional reading, study assignments, or class meetings to compensate for attendance time lost.

Class Locations

Most classes meet on the University campus located at Ward Circle at the intersection of Massachusetts and Nebraska Avenues, N.W. A few classes meet at special locations as indicated in the *Schedule of Classes* for each academic term.

A standard program of off-campus instruction is administered by the College of Continuing Education which arranges for course offerings at selected off-campus locations throughout the metropolitan Washington area. These include both undergraduate and graduate courses in several fields offered by the University and come under the same regulations and conditions as credit earned in courses meeting in University facilities on campus.

Although scheduling of off-campus classes follows the general pattern of the University calendar and time schedule, it does not necessarily conform to the campus semester dates in all details. The *Off-Campus Schedule of Classes* for each academic term should be consulted for further information.

**Colleges, Schools, and Departments:
Degree Programs and
Courses of Instruction**

Summary of Degree Major Programs*

College of Arts and Sciences

Associate in Arts

General Studies

Bachelor of Arts

American Studies
Anthropology
Art
Biology
Communication
Economics
Education—Elementary
Environmental Studies (secondary major only)
French Studies
Foreign Language and Communications Media
German Studies
History
Interdisciplinary Studies*
Jewish Studies
Language and Area Studies
Literature
Music
Performing Arts
Philosophy
Physics
Psychology
Religion
Russian Studies
Sociology
Speech-Communication
Spanish Studies

* This list provides a general summary of the degree major programs currently available at The American University. In a number of instances the appropriate degree major name is more detailed than given on this list. Consult the appropriate college, school, or department section in this publication.

Given the rapidly expanding interdisciplinary base of knowledge, a number of the teaching units of the University have developed and are developing specially designed degree major programs with a strong interdisciplinary emphasis. Consult the Interdisciplinary Studies section of this publication as well as any apparently appropriate teaching units for more detailed information on opportunities in interdisciplinary studies.

Bachelor of Fine Arts**Bachelor of Music****Bachelor of Music Education****Bachelor of Science**

Applied Mathematics
Art Education
Biology
Chemistry
Computer Science
Distributed Sciences
Environmental Studies (second major only)
Interdisciplinary Studies*
Mathematics
Medical Technology
Microbiology
Physical Education
Physics
Sociology
Speech-Communication
Statistics

Master of Arts

Anthropology
Applied Anthropology
Applied Economics
Art History
Communication
Economics
Education
French Studies
Foreign Language and Communication Media
German Studies
History
Interdisciplinary Studies*
International Communication (joint program with SIS)
Linguistics
Literature
Mathematics
Music
Performing Arts
Philosophy
Physics
Religion
Russian Studies
Sociology
Spanish Studies
Speech-Communication
Statistics

Master of Education**Master of Fine Arts****Master of Science**

Biology
Chemistry
Physics

Master of Science in Science Teaching**Doctor of Education**

Doctor of Philosophy

Anthropology
Chemistry
Economics
Education
History
Literary Studies
Mathematics
Mathematics Education
Philosophy
Physics
Psychology, Experimental
Psychology, Clinical
Science Education
Sociology
Statistics

School of Business Administration

Bachelor of Science in Business Administration

Accounting
Business-Economics
Computer Science
Finance
Interdisciplinary Studies
Marketing
Personnel
Urban Development

Master of Business Administration

Accounting
Business-Government Relations
Employee Relations
Finance
International Business
Managerial Economics
Marketing
Operations Analysis
Real Estate
Transportation

Master of Science

Business-Government Relations
Employee Relations Management
Real Estate and Urban Development Planning

Doctor of Philosophy

College of Continuing Education

Associate in General Studies

Social Sciences

Bachelor of Science in General Studies

Social Sciences

Master of Science

Public Relations

School of Nursing

Bachelor of Science

Nursing

College of Public Affairs

Center for the Administration of Justice

Associate in Administration of Justice

Bachelor of Science in Administration of Justice

Bachelor of Science

Interdisciplinary Studies

Master of Science in Administration of Justice

School of Government and Public Administration

Bachelor of Arts

Interdisciplinary Studies

Political Science

Urban Affairs

Bachelor of Science

Interdisciplinary Studies

Political Science

Urban Affairs

Master of Arts

American Politics

Political Science

Political Science: Politics and Economics

Master of Public Administration

International Affairs

Public Administration

Public Policy

Urban Affairs

Doctor of Philosophy

Political Science

Public Administration

School of International Service

Bachelor of Arts

International Studies

Interdisciplinary Studies

Language and Area Studies

Bachelor of Science

International Studies

Interdisciplinary Studies

Language and Area Studies

Master of Arts

International Studies

Interdisciplinary Studies

Doctor of Philosophy

International Studies

Center for Technology and Administration

Bachelor of Science in Technology of Management

Master of Science in Technology of Management

Washington College of Law

Juris Doctor (see separate catalog of the Washington College of Law)

College of Arts and Sciences

Dean	Richard Berendzen
Associate Dean	Ruth E. McFeeter
Assistant Dean	Donald G. Triezenberg
General Assistant to the Dean	Robert L. Norris
Academic Counselor	Carl E. Cook
Academic Counselor	Ruth E. Early
Academic Counselor	Dorothy A. Owens

THE COLLEGE OF ARTS AND SCIENCES is committed to an intellectual environment and an educational experience stressing the concept of perpetual self-discovery. Instructional efforts are not confined to the transmission of a prescribed quantity of fixed knowledge for all, but attempt to discover and foster individual human development, challenge intellectual capacities, and assist the student in relating these to the world of today and, more importantly, tomorrow.

In keeping with this emphasis on personal uniqueness, the college offers a student the opportunity to pursue a traditional major in one of its nineteen programs, or to develop, with faculty advice, a program compatible with his emotional and intellectual needs.

As a part of the process of providing a quality educational experience for the student, the College of Arts and Sciences undergoes periodic revisions of its undergraduate and graduate academic programs. In the year ahead, it will be endeavoring to establish, through the definition of cross-departmental interests, four multi-disciplinary Faculties. The programs which evolve will enable students and faculty to engage in a wide range of multi-disciplinary study and research while maintaining a disciplinary base in their respective departments (See the latter part of this section for Faculties description.)

In keeping with the dynamics of academic investigation cooperatively shared by both faculty and students, certain descriptive materials contained in this section of the *Catalog* are incomplete or in the process of revision. All students are advised to share their academic intent with a faculty advisor, department chairman, or the Dean's Office, to ascertain what educational experiences are available, in the process of change, or being developed.

Arts and Sciences

Correspondence Directory: Richard Berendzen, *Dean*

Ruth E. McFeeter, *Associate Dean*

Donald G. Triezenberg, *Assistant Dean*

Undergraduate Degree Programs—See below.

Graduate Degree Programs—See the latter part of this section.

Full-time Faculty

See the faculty listing following the individual departmental headings.

Undergraduate Degrees

Bachelor of Arts

American Studies

Anthropology

Art

Biology

Communication

Economics

Education—Elementary

Environmental Studies (only as
second major)

Foreign Language and
Communication Media

History

Interdisciplinary Studies *

Jewish Studies

Language (French, German,
Russian, Spanish)

Language and Area Studies

Literature

Music

Performing Arts

Philosophy

Physics

Psychology

Religion

Sociology

Speech-Communication

Bachelor of Fine Arts

Bachelor of Music

Bachelor of Music Education

Bachelor of Science

Applied Mathematics

Art Education

Biology

Chemistry

Computer Science

Distributed Sciences

Environmental Studies (only
as second major)

Interdisciplinary Studies *

Mathematics

Medical Technology

Microbiology

Physical Education

Physics

Sociology

Speech—Communication

Statistics

*Some interdisciplinary programs are formalized and carry their own degree major designations; others are unique student designed programs and are authorized by the University Senate Interdisciplinary Studies Committee (see Interdisciplinary Studies section in this publication) and the Dean.

Associate in Arts Degree

Some high school graduates do not, or for some reason cannot, remain in college for four years, yet desire to complete a degree program. This fact, along with the development of the junior college, has contributed to the popularity of the Associate in Arts degree which may be awarded after successful completion of two years' study or its equivalent. The college offers the Associate in Arts degree in general studies only.

To receive the associate degree the student must fulfill the University English requirement, satisfy the high school language requirement, and accrue a total of 16 courses with a cumulative average of "C" or better.

Academic Counseling

The CAS undergraduate is responsible for contacting his faculty advisor to plan each semester's program according to his interests, vocational plans, and academic maturity. A first-semester freshman is counseled by curriculum and registration materials mailed during the summer months. His response to this information provides the basis of his first semester's course work. During freshman orientation, immediately prior to the beginning of the fall

semester, the entering student meets with his assigned faculty advisor to discuss his academic program. Normally, this advisor counsels the student until he formally declares a major, at which time he selects or is assigned a faculty advisor in his major department. The transfer student is directed to the department to which he was admitted for the purpose of academic advisement.

The student is encouraged to seek additional assistance, if necessary, from the academic deans and counselors of the College of Arts and Sciences. Appointments are made through the receptionist, Gray Hall, (202) 686-2440.

Degree Requirements

The minimum requirement for all bachelor's degrees is 32 course units.

Although the college itself sets forth no requirements for the bachelor's degree, the student is urged to build his program on a broad liberal arts base, seeking understanding in many academic disciplines. To earn the bachelor's degree, the student must fulfill the University English requirement (see Undergraduate Degree Requirements under General Academic Regulations and Information in this publication) and satisfy the requirements, related fields, and tool subjects in his major as specified by his department or approved as a valid interdisciplinary program. Major programs and interdisciplinary studies are described under departmental sections of the college.

Foreign Language

Completion of the Intermediate II college level of a foreign language is no longer required for the bachelor's degree. However, the College of Arts and Sciences encourages students to gain proficiency in at least one foreign language.

It is natural for students embarking on a career in international relations, a study of the humanities, specialization in minority groups in the United States, and those with many other interests to concentrate on language study. Graduate study will often require proficiency in at least one foreign language. At the doctoral level a second foreign language may be required.

Departments and CAS Faculties

MAJORS

By the end of the sophomore year, if not before, the student is expected to declare a field of concentration, an academic major. It is in this field that he pursues study in depth and synthesizes his academic knowledge. Major programs are described under departmental sections of the College.

Students interested in the natural sciences, mathematics, music, art, speech-communication, and physical education need to take specific courses in their freshman year if they intend to complete a degree in eight semesters. Such students should declare their interest as soon as possible and seek explicit counseling from the appropriate department.

Admission to the University does not automatically constitute admission to a major program. A student must present his academic credentials (transcript and/or transfer evaluation sheet) and process a formal declaration of major on the Declaration of Major form (available in CAS and department offices) which is submitted to the departmental chairman for acceptance. A student should become familiar with departmental requirements and regulations as stated in the *Catalog* and in departmental requirement check sheets.

When the student is accepted as a major, he should select or ask to be assigned a major academic advisor who will supervise his studies until graduation.

Students who wish to change their majors from one department to another within CAS must follow the same procedure, being accepted by the chairman of the new department. Students desiring to change from another school to the College of Arts and Sciences must apply through the Dean's office.

INTERDISCIPLINARY MAJOR

This program permits CAS undergraduate students to complete an interdisciplinary major according to their needs, capacities, and interests. A program is formulated with the advice and approval by at least three full-time faculty members from disciplines relevant to the student's defined emphasis, and is subject to the approval of the Dean and the review of the University Senate Interdisciplinary Studies Committee.

The initiative in all such degrees is with the student. It is the student who is responsible for determining the central concept around which the program is to center. With the three faculty members, he determines the requirements of his concentration and identifies a sequence of course work to fulfill his program needs. The concept should be formulated in a written

statement no later than the junior year. An interdisciplinary major can also be taken as a second major.

The University Interdisciplinary Studies Committee sets all requirements and procedures for this program. Interested students should study the Interdisciplinary Studies section in this publication and consult the Coordinator of Interdisciplinary Studies for assistance.

MULTI-DISCIPLINARY STUDY OPPORTUNITIES WITHIN THE FACULTIES

As historically evolved, the College of Arts and Sciences consists of 18 separate departments, each of which represents a traditional academic discipline. Every faculty member in the college is associated with a particular department, and most students in the college select their major program from within one of these departments. Faculty and student interest, however, go beyond the single academic discipline with which they are associated. Faculty members from different departments often work cooperatively to apply the knowledge of their various disciplines to the study of topics which cut across the established disciplinary lines. Students, recognizing the need for breadth as well as depth in their college education, generally select approximately half of their courses from outside of their major department. Furthermore, some students choose their major field of study from among one of the established multi-disciplinary programs of the college. In recognition of these cross departmental interests on the part of its faculty and students, the College of Arts and Sciences has decided to move toward the establishment of multi-disciplinary Faculties. These Faculties are responsible for the development and administration of multi-disciplinary programs of instruction and research.

The Faculties currently offer formally recognized multi-disciplinary programs for undergraduate students in American Studies, Environmental Studies, and Jewish Studies. These programs are described in detail in the appropriate sections of this *Catalog*. The Faculties also offer freshman a First Year Module Program which combines a liberal arts perspective with an intensive introduction to the student's major field of interest. This program is described in detail in the *Freshman Academic Guide*.

CAS Pre-Professional Programs

Pre-professional curricula are offered in dentistry, medicine, law, physical therapy, medical technology, engineering, social work, secondary education, and theology. A student interested in one of these fields should consult the associate dean for academic counseling and for the assignment of an advisor representing the special field of interest.

PHYSICAL THERAPY

Since upper-level courses in physical therapy are not offered by the University, it is expected that the student will transfer at the end of the sophomore year to a school having the required curriculum.

MEDICAL TECHNOLOGY

The College of Arts and Sciences offers an undergraduate degree which prepares students to enter the challenging clinical laboratory fields. Since modern medical practice relies increasingly upon the results of laboratory examination, the health professions are facing a growing need for technicians with strong educational backgrounds. Our science departments provide a way for undergraduates to earn a Bachelor of Science degree and be eligible to apply to the Registry of Medical Technologists of the American Society of Clinical Pathologists or the American Registry of Radiologic Technologists for certification. Interested students should address inquiries to the Biology Department, after reading the program as outlined in the Department of Biology (CAS) section of this *Catalog*.

PRE-THEOLOGY

Pre-theological students are attracted to The American University because of the presence of the Wesley Theological Seminary on the campus, and the offerings of the Department of Philosophy and Religion. The religious activities under the direction of the University Chaplain assist in providing excellent conditions for pre-professional studies in religion.

PRE-MEDICAL and PRE-DENTAL

The Association of American Medical Colleges (AAMC) publishes annually an *Admissions Requirement Handbook* on pre-medical programs and the requirements for admission to AAMC-Approved medical schools. The pre-medical student is urged to study a copy of this publication, which may be ordered through The American University Counseling Center, or the American College Testing Program, P.O. Box 414, Iowa City, Iowa.

Medical schools require a minimum of three years of undergraduate studies and strongly recommend completion of the bachelor's degree. There is no inclination to prescribe the undergraduate major in view of the professional schools' interest in students with varied intellectual concerns and backgrounds.

While there is some variation of practice, medical schools in general require the following undergraduate studies: two years of chemistry, one year of biology, one year of physics, and one year of English. In some instances one year of mathematics and two years of a modern foreign language also are required. It is emphasized that these are minimum requirements and, again, the student is urged to consult the *Admissions Requirement Handbook* (available in the offices of the Departments of Biology and Chemistry) and his advisor.

The basic pre-medical pattern applies to pre-dental students as well as to others interested in veterinary medicine and other related fields.

3-2 ENGINEERING PROGRAM

The American University's 3-2 Engineering Program is offered in cooperation with the School of Engineering and Applied Science, Washington University, St. Louis, Missouri. The student spends three years in the College of Arts and Sciences at The American University, then transfers to Washington University for an intensive two year professional preparation. If the student's grades and first three years of study are satisfactory, the transfer is automatic. The completion of the five year course of study provides two degrees: The American University's B.A. or B.S. and Washington University's engineering baccalaureate in chemical, civil, electrical, or mechanical engineering.

Scholarship students in the combined program are encouraged to apply to Washington University for continuing scholarship support. Their applications will be evaluated using need and academic performance as criteria.

Students planning to enter the program must plan very carefully. They should seek counsel from the Department of Mathematics, the science departments, or the Dean's office, Gray Hall.

PRE-LAW

There is no prescribed major for a student aspiring to this profession but, whatever the choice of major, it is recommended that the student undergird his major program with a broad distribution of courses in mathematical, natural, and social sciences, and the humanities.

The Law School Admission Test (LSAT) is required of every applicant to law school. This test should be taken no later than the first semester of the senior year. Students may register through the University Counseling Center to take the test on The American University campus.

SECONDARY EDUCATION

Students planning to teach in secondary schools major in the field in which they plan to teach. In addition, they complete specified courses in professional education. Consult the section on the Department of Education under the College of Arts and Sciences in this publication.

SOCIAL WORK

Students interested in a graduate degree program in social work often major in one of the social sciences at the undergraduate level, with particular emphasis on sociology or psychology.

Undergraduate Honors Program

A sequence of special seminar courses is available to qualified students. The courses, listed in the semester *Schedule of Classes*, accept a very limited enrollment of undergraduate students who must receive approval from the major department prior to registration. The Department of Literature offers a limited number of Honors English sections each fall and spring semester. Qualified students are selected by the department and the dean's office and receive written invitations to enroll.

In addition to the colloquia, many departments offer to exceptional students the opportunity to pursue honors work in the major. An interested upperclassman should consult his departmental faculty.

Graduate Degrees

The graduate programs of the College of Arts and Sciences are directed toward the development of highly competent scientists, sensitive teachers, creative and critical scholars. To achieve this objective the college provides an academic setting and climate favorable to

the free interchange of ideas and the disciplined exploration and testing of the most seminal of these notions. The primary function of this collaborative interchange among mature and maturing scholars is to enhance the latter's understanding of, and sensitivity to, the spirit and styles of intellectual innovation and scholarly inquiry. The student is encouraged to identify research or intellectual problems of his own choosing and actively to seek their solution. These self-defined problems and the creative inquiry they generate are the ultimate influence for the fashioning of the individual student's program of graduate study in the college.

Graduate Degree Programs

Master of Arts

Anthropology
Applied Anthropology
Applied Economics
Art History
Communication
Economics
Education
Foreign Language and Communication Media
History
Interdisciplinary Studies
International Communication (joint program—CAS and SIS)
Language—(French, German, Russian, Spanish)
Linguistics
Literature
Mathematics
Music
Performing Arts
Philosophy
Physics
Religion
Speech-Communication
Sociology
Statistics

Master of Education

Master of Fine Arts

Master of Science

Biology
Chemistry
Physics

Master of Science in Science Teaching

Doctor of Education

Doctor of Philosophy

Anthropology
Chemistry
Economics
Education
History
Literary Studies
Mathematics
Mathematics Education
Philosophy
Physics
Psychology
Science Education
Sociology
Statistics

Admissions—See Graduate Admission section and departmental description.

Degree Requirements—See Graduate Degree Requirements section and departmental description.

Academic Counseling

Programs of graduate study usually consist of a combination of courses and research activities, some selected by the student to develop his individual interests and some presented by the department concerned. Graduate counselors on college policy are available in the dean's office, and specific counseling about department requirements is given by each department. It is recommended that at the beginning of his graduate career each student should determine the details of the entire advisory system.

American Studies

Correspondence Directory: Earl H. Brill, *Chairman*

Fields of Study

Interdepartmental program with course work taken in art, anthropology, communication, education, economics, international relations, literature, performing arts, music, philosophy, religion, history, public administration, government.

Full-time Faculty

Associate Professor: Charles C. McLaughlin

Assistant Professor: Earl H. Brill

Undergraduate Degree

Bachelor of Arts

The program in American Studies is available through registration in the College of Arts and Sciences. Students interested in this program should seek the advice of the Chairman of the American Studies Committee.

Admission to the Major

A student who has earned an average of 2.50 in two courses related to the major qualifies for admission. Consult the Chairman of the American Studies Committee for additional qualifications.

Composition and Reading Requirement—See Undergraduate Degree Requirements under General Academic Regulations.

Language Requirement—See Undergraduate Degree section under the College of Arts and Sciences.

Major Requirements

Students have an opportunity to design their own preferences into this major program within the framework of the following requirements. The total major requirement is fourteen courses.

(A) American Studies courses required of all majors:

Two of the following three courses:

02.200 Formation of the American Tradition

02.201 American Civilization: The Urban-Technological Era

02.301 Contemporary American Culture: The Literary Vision in addition to the following two courses:

02.400 Colloquium in American Studies

02.401 American Studies Senior Seminar

(B) A selection of four courses from a single department dealing with some aspect of American life.

(C) A further selection of three courses from some other single department, also dealing with American life.

- (D) A selection of three courses which may be distributed over several departments. These courses may deal with American life or they may be chosen to give the student some understanding of another culture.

Consult the chairman for the list of courses that may be used to satisfy the requirements under B, C, and D above.

Departmental Honors

Students with a 3.0 average and a 3.25 average in their major courses may apply for Honors work. During the senior year they will complete a major research and writing project under the direction of the chairman.

Electives

To complete a minimum of 32 course units.

Courses of Instruction

Undergraduate level course values are expressed as *course units* according to the following decimal notations: (c 00.25) = $\frac{1}{4}$ course unit; (c 00.50) = $\frac{1}{2}$ course unit; (c 00.75) = $\frac{3}{4}$ course unit; (c 01.00) = 1 course unit; (c 01.50) = 1 $\frac{1}{2}$ course units; etc.

Graduate level course values are expressed as *semester credit hours* according to the following decimal notations: (s 01.00) = 1 semester hour; (s 02.00) = 2 semester hours; (s 03.00) = 3 semester hours; etc. There are no fractional semester credit hours.

Undergraduate Courses

02.200 Formation of the American Tradition (c 01.00)

The changing American experience. The tension between the prestige of the European past and the promise of the new world. The reflection of this tension in American life, thought, and art.

02.201 American Civilization: The Urban-Technological Era (c 01.00)

The changing face of America. The impact of urbanization and technological change on the American family, school, church, and arts.

02.301 Contemporary American Culture: The Literary Vision (c 01.00)

Analysis of American culture from the perspective of imaginative writers and social critics. Exploration of the relationship of literary forms to the American cultural experience. *Prerequisite*: one course in U.S. history, American literature, or American studies.

02.302 Religion in the American Environment (c 01.00)

The interaction of religion and American culture, making use of historical, literary, and sociological data, theological material, and research in contemporary religious phenomena. *Prerequisite*: one course in U.S. history, American studies, or religious studies.

02.303 American Decades: The 1950's (c 01.00)

Synoptic view of a significant decade. The course will treat political and economic affairs, international relations, social change, literature, drama, music, and the fine and popular arts. *Prerequisite*: one course in U.S. history, American literature, or American studies.

02.304 The Popular Arts in America (c 01.00)

Identification of popular culture forms, analysis of their content, assessment of their importance, evaluation of their quality, and judgement of their cultural impact. Popular literature, comics, movies, TV, and pop music. *Prerequisite*: one course in U.S. history, American literature, or American studies.

02.390 Independent Reading Course in American Studies (c 00.25 through 02.00)

Consult current bulletin for topics offered during each semester. See Independent Reading Courses and Study Projects under General Curriculum Information.

02.400 Colloquium in American Studies (c 01.00)

Reading, reports and discussion of a collection of the major books and articles in the American Studies field, including Political Thought, Literary Studies, Religion, Social Thought, The American Character, the Arts and Popular Culture.

02.401 Senior Seminar in American Studies (c 01.00)

Introduction to research materials and methods. Students prepare and present a research paper for criticism by the seminar. Required of all seniors in American Studies.

02.490 Independent Study Project in American Studies (c 00.25 through 02.00)

Students complete a work project, research paper, critical bibliography or other approved project under the direction of a faculty member. See Independent Reading Courses and Study Projects under General Curriculum Information.

02.498 Senior Honors in American Studies (c 01.00)

See chairman for details.

02.499 Senior Honors in American Studies (c 01.00)

See chairman for details.

Anthropology

Correspondence Directory: John J. Bodine, Chairman

Fields of Study

Anthropological method and theory, ethnology and social anthropology, ethnography, linguistics, archeology, ethnohistory, culture change, applied anthropology, field research at undergraduate and graduate levels.

Full-Time Faculty

Professor: John James Bodine, Katherine S. Halpern, George L. Harris, Ruth Landman, Charles W. McNett, Jr., Harvey C. Moore, Philleo Nash, A. L. Vilakazi

Associate Professor: Geoffrey L. Burkhardt

Assistant Professor: Gary Hume, William L. Leap

Undergraduate Degree

Bachelor of Arts**Admission to the Major**

Formal admission to the major requires a 2.00 (C) grade point average (on a four point scale), better than a 2.00 grade point average in two anthropology courses, and approval by the departmental Undergraduate Studies Director.

Composition and Reading Requirement—See Undergraduate Degree Requirements under General Academic Regulations.

Language Requirement—Minimum CAS Requirement. See Undergraduate Degree section under the College of Arts and Sciences.

Students planning to continue with graduate work will be encouraged to acquire reading skill in one or more modern foreign language.

Departmental Requirements for Majors**INTRODUCTORY COURSES**

03.201 Cultural Anthropology

03.202 Biocultural Evolution

COURSES AT .300-or-ABOVE LEVEL

- 03.331 Variation in Man
- 03.334 Anthropological Archeology
- 03.336 Social Structure
- 03.337 Anthropology of Language
- 03.543 Analytical Methods: Quantitative and Qualitative
- 03.545 Theory in Anthropology

and a minimum of four electives chosen from at least three of the following groups:

A. AREA ORIENTED:

- 03.332 Old World Prehistory
- 03.333 New World Prehistory
- 03.335 Cultures of the World
- 03.531 Archeology courses
- 03.536 Linguistics: Language Area Profiles
- 03.539 Ethnology courses

B. METHOD ORIENTED:

- 03.434 Community Studies
- 03.543 Analytical Methods courses
- 03.550 Field Methods courses

C. POLICY ORIENTED:

- 03.537 Language & Culture (when so focused)
- 03.544 Applied Anthropology courses

D. SYSTEMICALLY ORIENTED:

- 03.430 Religion in Culture
- 03.431 Culture & Personality
- 03.433 Anthropology of Art
- 03.532 Culture Change
- 03.537 Language and Culture
- 03.538 Systemic Analysis courses

Departmental Honors

For students writing a superior senior thesis. Consult departmental advisor for details.

Electives

To complete a minimum of 32 courses.

Interdisciplinary Programs

The department will arrange interdisciplinary programs for interested students.

Graduate Degrees

Admission

Candidates for graduate degrees are subject to University Graduate Degree Requirements (See General Academic Regulations). Further, a B average in the undergraduate major and two academic letters of reference are required. An undergraduate major in anthropology is not required. Graduate program information is available from the department.

Master of Arts**Course Requirements**

Minimum of 30 hours of approved graduate work including at least 12 hours on the .600 or .700 level, of which normally six hours is 03.797 Master's Thesis Seminar. Designated core courses in theory and method are mandatory in first year of graduate work.

Combined 5 year BA/MA work

Students who wish to complete the BA and MA in anthropology in 5 years, may expedite this plan by doing more than the required 32 courses before the completion of the last undergraduate semester. It is possible for students in this program to carry forward 2 graduate level courses in Anthropology into graduate work, provided the minimum department requirements are also being met. Admission to MA work is handled in the normal manner, by formal application during the senior year.

Comprehensive Examination

One examination in general anthropological theory and method.

Other Requirements

Thesis and oral defense of thesis. One language or other tool of research such as statistical or computer analysis is strongly recommended.

Master of Arts in Applied Anthropology**Course Requirements**

Minimum of 30 hours of approved graduate work of which normally six hours is 03.797 Master's Thesis Seminar. Two core courses in general anthropology (03.731 Seminar: Problems in Anthropology) are required in addition to courses in applied anthropology and culture change.

Comprehensive Examination

One examination stressing the relevance of general anthropology to applied work.

Other Requirements

Thesis and oral defense of thesis.

Doctor of Philosophy

Course Requirements—See Graduate Degree Requirements under General Academic Regulations.

Minimum of 72 hours of approved graduate work is required, including 03.799 Doctoral Dissertation Seminar (may be repeated for up to 24 hours). Students entering the PhD program with M.A. degrees in anthropology earned elsewhere must complete 30 hours of course work in residence plus 12 hours of dissertation credit. Students registered at the University and completing the requirements of a master's degree except for the master's thesis may proceed to doctoral work if their performance is of enough distinction in the minds of the faculty to warrant such a decision.

Comprehensive Examinations

(1) The examination 3.006 on general knowledge of anthropology is required within 24 hours of graduate work for students who enter the PhD program without an M.A. in anthropology. For students with an M.A. in anthropology from other institutions, this examination will be taken during the first year of graduate work.

(2) A minimum of four comprehensive examinations, including 03.006, one in a major field, and normally one in an approved elective subfield of specialization, and one in an approved area of concentration. At least one comprehensive examination must be an oral examination.

Other Requirements

A dissertation and an oral defense thereof.

A working knowledge of two languages useful as tools in library and/or field research or an acceptable substitute for one language is required. Statistical or computer analysis would provide such a substitute. Choice is to be evaluated and approved by the department in terms of the nature of the student's research interests and the needs for a career in anthropology. Admission to candidacy for the Doctor of Philosophy degree is contingent upon a passing performance on four comprehensive examinations and fulfillment of the tool requirements specified above.

Graduate Degrees in More Than One Discipline

The department will make arrangements for interdisciplinary study; students must submit a specific program for prior approval and take at least one comprehensive in this department.

Graduate Comprehensive Fields**CORE FIELD**

03.006 Anthropological Method and Theory

MAJOR FIELDS

03.016 Ethnological Methods

03.017 Archeological Methods

03.018 Linguistic Methods

SPECIALITY EXAMINATIONS

03.020 Subfield of Specialization

03.021 Area of Concentration

03.022 Culture Analysis—for non-majors only

Consult Departmental Graduate Guide for details.

Courses of Instruction

Undergraduate level course values are expressed as *course units* according to the following decimal notations: (c 00.25) = $\frac{1}{4}$ course unit; (c 00.50) = $\frac{1}{2}$ course unit; (c 00.75) = $\frac{3}{4}$ course unit; (c 01.00) = 1 course unit; (c 01.50) = $1\frac{1}{2}$ course units; etc.

Graduate level course values are expressed as *semester credit hours* according to the following decimal notations: (s 01.00) = 1 semester hour; (s 02.00) = 2 semester hours; (s 03.00) = 3 semester hours; etc. There are no fractional semester credit hours.

Undergraduate Courses**03.201 Cultural Anthropology (c 01.00)**

Concepts and theories drawn from the comparative analysis of cultures which are used by anthropologists to understand human behavior.

03.202 Biocultural Evolution (c 01.00)

Interrelationships between biological and cultural factors in the origin and development of man. Primate studies. Prehistoric man and his cultures. Contemporary human variability.

03.331 Variation in Man (c 01.00)

Variation in man by race, age, developmental stages, and sex. *Prerequisite:* 03.202.

03.332 Old World Prehistory (c 01.00)

Cultural development of man in Europe, Africa, and Asia from his earliest cultural beginnings through early metal ages.

03.333 New World Prehistory (c 01.00)

Prehistory and rise of civilizations in the North and South American continents from the arrival of the Indian to the time of European contact.

03.334 Anthropological Archeology (c 01.00)

Aims, methods and theory of archeology as a subdiscipline of anthropology. Consideration of archeological evidence, data acquisition, dating, technical-typological analysis and interpretative frameworks. *Prerequisite:* 03.202.

03.335 Cultures of the World (c 01.00)

Introduction to and comparison of culture areas of the world; representative societies studied to examine role of economic, social, political, and religious systems at various levels of complexity. Elective option for Urban Affairs major.

03.336 Social Structure (c 01.00)

Principles of organization of persons into kinship, political, ritual, and other groups. Analysis of rights and duties of persons according to institutional context. Relation of central cultural concepts to varieties of social organization. *Prerequisite:* 03.201. Elective option for Urban Affairs major.

03.337 Anthropology of Language (c 01.00)

Language as a cultural phenomenon. Linguistic analysis as anthropological research. The structure of the speech community. Sapir-Whorf theory. Role of language in cultural maintenance and cultural change. Language dynamics. *Prerequisite:* 03.201.

03.430 Religion in Culture (c 01.00)

The anthropological study of religion, exclusive of the great world religions. Religious belief and ritual; functions of religion; religion and culture change. *Prerequisite:* 03.201.

03.431 Culture and Personality (c 01.00)

Cultural determinants in personality formation. Anthropological studies of child development and "typical" personality. The relation of psychological dynamics to social and cultural systems. *Prerequisite:* 03.201 and one additional course in anthropology, or permission.

03.433 The Anthropology of Art (c 01.00)

Visual and plastic arts and their symbolism and expression in cultures of Africa, Oceania, and the New World. *Prerequisite:* 03.201 or permission of instructor.

03.434 Community Studies (c 01.00)

Analysis of the methods and results of studies of communities in complex societies, including American society, which is preparatory to a field research project near the campus. Elective option for Urban Affairs major.

03.390 Independent Reading Course in Anthropology (c 00.25 through 02.00)

See Independent Reading Courses and Study Projects under General Curriculum Information.

03.490 Independent Study Projects in Anthropology (c 00.25 through 02.00)

See Independent Reading Courses and Study Projects under General Curriculum Information.

03.498-499 Senior Honors in Anthropology (c 02.00)

Individualized study for exceptional students. Topics to be arranged with appropriate faculty. Open to seniors with grade index of at least 3.0 in the major and 3.0 in the cumulative index. Requires approval of department chairman.

Graduate Courses

All courses listed below carry graduate credit. .500 level courses are open to graduate and qualified undergraduate students. Undergraduate students in .500 level courses receive one course unit for 3 or 4 semester hour credits. Courses at the .600 and .700 levels are open to graduate students only.

03.530 Human Evolution (s 03.00)

Primate variation in form and behavior; early man in evolutionary and ecological perspective; fossil evidence; genetic, biological and cultural factors. *Prerequisite:* 03.331.

03.531 Archeology: Topics will be rotated (s 03.00)

Archeological analysis and interpretation. Theory and method applied to archeological data of a particular area and/or period of time. Successive semesters deal with topics such as: Old World: Lower and Middle Paleolithic Ecology, Upper Paleolithic and Mesolithic Ecology, Archeology of South Asia, Archeology of South-West Asia; New World: Archeology of Meso-America, Archeology of the Eastern Woodlands. May be repeated for credit if there is no duplication. *Prerequisite:* 03.334, 03.332, 03.333 or permission. Where the geographic area is relevant, these courses constitute part of the SIS area programs.

03.532 Culture Change (s 03.00)

Dynamics of culture. Stability, form, growth. Determinants of and barriers to change. Culture

contact, acculturation and assimilation. *Prerequisites:* 03.201 and one additional course in cultural anthropology, or permission of instructor.

03.536 Language Area Profiles (s 03.00)

Analysis of a specific language area in terms of language distribution, structural variation, history and cross-interpretation with ethnological and archeological data, e.g. Amer-Indian, Malayo-Polynesian, Indo-Hittite groups. May be repeated for credit if there is no duplication. *Prerequisites:* 03.337 and 03.537, or permission of instructor.

03.537 Language and Culture: Topics will be rotated. (s 03.00)

Attention to specific aspects of the functioning of language within human behavior. Topics will include: ethnolinguistic analysis, sociolinguistic analysis, bilingualism, language and acculturation, problems in language planning.

03.538 Systemic Analysis: Topics will be rotated. (s 03.00)

Analysis of ethnographic data in terms of cultural and social systems. Successive semesters on: kinship, descent and marriage; politics and law; economics; symbolism in ritual and religion. May be repeated if there is no duplication. *Prerequisite:* 03.336 or permission.

03.539 Ethnology: Topics will be rotated. (s 03.00)

Socio-cultural analysis focused upon geographical areas. Culture areas analyzed in terms of the ethnographic, methodological, and theoretical literature. Regularly recurring courses include: China, Japan, East Asia, South Asia: Caste, North American Indians, Middle America, Traditional Africa, Modern Africa, West African Urbanization, Europe, East Central Europe. May be repeated for credit if there is no duplication. *Prerequisite:* 03.335, 03.336, or permission. Where the geographic area is relevant, these courses constitute part of the SIS area programs. Europe is elective option for Urban Affairs major.

03.543 Analytical Methods: Topics will be rotated. (s 03.00)

Student practice in laboratory techniques and/or analysis of cultural materials. Stress on actual involvement in research. Methods presented in different semesters include: Quantitative and Qualitative Methods, Osteology, Paleoecology, Technology, Ethnohistory, Cultural Dynamics, Cross-Cultural Analysis, and Multivariate Computer Analysis. May be repeated for credit if no content duplication is involved. *Prerequisite:* permission.

03.544 Applied Anthropology: Topics will be rotated. (s 03.00)

The uses of anthropology. Principles and practice directed toward problem solving in such fields as technological change; community self-determination; administration; health services; education systems; urban and ethnic affairs; poverty. Regularly recurring courses are: Principles of Applied Anthropology; Medical Anthropology; Anthropology and Education. *Prerequisite:* permission of instructor. Principles of Applied Anthropology and Medical Anthropology are elective options for Urban Affairs major.

03.545 Theory in Anthropology (s 03.00)

History of the discipline, reviewing theory, method and approaches of anthropology in ethnology, archeology, physical anthropology, and linguistics. Outstanding theorists of the field. Open to anthropology students who are seniors or graduate students. *Prerequisite:* at least one course in each of the above fields.

03.550 Field Methods: Topics will be rotated. (s 03.00 through 06.00)

Intensive training in ethnographic, linguistic, or archeological field methods. Ethnological utilization of subcultural resources of the Washington area; or excavation in the U.S. or abroad. Preparation of proposals, funding, sampling, data gathering and preliminary analysis of materials.

03.590 Independent Reading Course in Anthropology (s 01.00 through 06.00)

See Independent Reading Courses and Study Projects under General Curriculum Information.

03.690 Independent Study Project in Anthropology (s 01.00 through 06.00)

See Independent Reading Courses and Study Projects under General Curriculum Information.

NOTE: Permission of instructor required for all Seminars. May be repeated for credit if no duplication is involved.

03.700 Seminar: Psychological Anthropology (s 03.00)

Selected topics in psychological anthropology. Current theory and problems in the mutual relations of culture and personality; cognitive processes and the functioning of cultural systems; relationships to cultural stability and change.

03.701 Seminar: Cultural Dynamics (s 03.00)

Evaluation of existing theories of change, their strengths and inadequacies. Attempted adumbration of new theory with contemporary significance.

03.702 Seminar: Urban Anthropology (s 03.00)

Anthropological approach to cultures of the city. Analysis of cultural backgrounds of peoples moving to urban communities. Pathways of groups migrating into different levels of urban society. Subcultures of class and ethnic groups in the urban environment.

03.703 Seminar: Anthropology of Development (s 03.00)

The study of directed social change. Programs in aid of education, agriculture, health, industrial and community development selected for student research, presentation, and discussion.

03.704 Seminar: Social Anthropology (s 03.00)

Focused conceptual frame for study of social relations of groups and categories of persons, of institutions and relations among institutions in simple and complex societies. Significance of focus for theory of stability and change.

03.705 Seminar: Processual Interpretation (s 03.00)

Consideration of archeology as anthropology. Contributions of archeological data to general anthropological theory, especially cultural process.

03.731 Seminar: Problems in Anthropology (s 03.00)

Intensive analysis of selected theoretical and methodological problems in one or more fields of anthropology.

03.737 Seminar: Topics in Anthropological Linguistics (s 03.00)

Graduate level survey of the scope of linguistic science as it relates to anthropological method and theory.

03.797 Master's Thesis Seminar (s 03.00 through 06.00)**03.799 Doctoral Dissertation Seminar (s 12.00 through 24.00)**

Art

Correspondence Directory: Robert A. D'Arista, *Chairman*

Fields of Study

Fine arts, design, art history, art education.

Full-time Faculty

Professor: Robert A. D'Arista, Robert F. Gates, Helene McKinsey Herzbrun, Ben L. Summerford
Associate Professor: Lothar Brabanski, Irene W. Eno, Mary Garrard, Marjorie Hirano, Luciano Penay, Carol Ravenal, Robert Shaffer, Theodore Turak
Assistant Professor: Alan E. Feltus, Michael Graham
Instructor: Law B. Watkins

Undergraduate Degrees

Bachelor of Arts, Bachelor of Fine Arts, Bachelor of Science (Art Education)

Admission to Majors

The department counsels freshmen and transfers. Faculty approval, and satisfactory completion of four courses in the specific field of study the student wishes to pursue is necessary for formal admission to the major. The Art Education major is essentially a Fine Arts program plus courses in Art Education, Education, and Student Teaching. Admission to it is based on grade average (B in all major courses) and portfolio review during the junior year of studio work.

Admission to the BFA degree program in Fine Arts (an intensive studio program) is based on faculty approval of portfolio and performance and may be sought only after the student has completed six or more courses or three semesters of studio work at The American University and before the beginning of the senior year.

Students transferring from other departments within the University or other colleges and universities are required to meet admission-to-major requirements stated above. Portfolio review prior to admission to the art major is required in two cases: students entering as seniors in any program, and students entering as juniors in the Art Education program. Portfolio review for admission to the BFA program required after residency at The American University. (Write the Department for details regarding portfolio submission.)

Composition and Reading Requirement—See Undergraduate Degree Requirements under General Academic Regulations.

Language Requirement—See Undergraduate Degree section under the College of Arts and Sciences.

Departmental Requirements—Bachelor of Arts, Bachelor of Sciences

MAJOR COURSES

Students majoring in art complete one of the following four programs of study (these are minimal requirements). All students majoring in the Department of Art must complete the last six required courses in their major at The American University. Four of these six courses must be in their specific field of study; they cannot be major-related.

FINE ARTS—12 studio courses (painting, drawing, sculpture, printmaking, etching, including 05.104 and 05.120) with three courses in drawing, at least four courses in one field: painting, sculpture or graphics and two courses in another of the same three fields.

ART EDUCATION—11 studio courses with two courses in drawing, at least one course in each of four studio fields (painting, sculpture, ceramics, and printmaking) and at least four courses in one field: painting, sculpture or graphics. Two courses, 05.370, Crafts for the Art Teacher, and 05.371, Methods of Teaching Art, are taken in conjunction with 21.445, Student Teaching in Secondary Schools: See Department of Education.

DESIGN—11 courses including at least 8–9 design and 2–3 studio.

ART HISTORY—10 art history courses including 07.100-1, Survey of Art I & II, and 07.500, Approaches to Art History.

RELATED COURSES

All art majors (in any of the four programs listed above) are required to take four art history courses including 07.100-1, Survey of Art I & II.

Design majors are required to take 17.343, Photography.

Majors in the art education program are required to take four art history courses, 21.300, Foundations of Education, 21.320, Psychology of Education, and 21.445, Student Teaching in Secondary Schools.

All art history majors are required to take two studio courses and four courses in related humanities or social sciences approved by their advisor.

Electives

To complete 32 courses.

Departmental Requirements—Bachelor of Fine Arts

The BFA program is designed to meet the needs of the exceptional student who desires an intensive studio experience within the context of the liberal arts and who, in the opinion of the faculty, is qualified for such intensive study. Admission is subject to the approval of a portfolio, judgement of grades, and a personal interview; approval of admission depends entirely on faculty action resulting from this review. Application for the BFA major may be made

by the student upon completion of six or more courses or three semesters of studio work and must be made before the beginning of the senior year. A student who elects to complete the program without prior admission is *not* automatically eligible for the degree.

MAJOR COURSES

18 studio courses including 05.104, 05.120, four courses in drawing and at least seven in one area of concentration (painting, sculpture, or graphics, *i.e.*, printmaking or etching).

RELATED COURSES

4 courses in art history including Survey of Art I and II. 10 electives must be taken outside the Department of Art.

Electives

To complete a minimum of 32 courses. The remaining 10 courses must be taken from other departments in the College of Arts and Sciences.

Graduate Degrees

Candidates for graduate degrees in all departments are subject to University Graduate Degree Requirements (See Graduate Degree Requirements under General Academic Regulations). Requirements given below are minimal from a departmental point of view. University requirements that exceed these requirements are nonetheless binding upon the student.

Master of Fine Arts

PAINTING OR SCULPTURE

Admission Requirements

A Bachelor of Arts and a Bachelor of Fine Arts degree with a minimum average of 3.00 (on a four point system) in the undergraduate art major *and* departmental approval of the applicant's portfolio of art work is required.

Portfolio should include at least ten drawings (including figure studies) and four to six paintings (and/or prints, if relevant). Slides may be submitted in lieu of paintings if shipping is difficult, but original drawings must be submitted.

Course Requirements

Requirements include a minimum of 36 credit hours of approved graduate work, including 6 credit hours in 5.797 Master's Thesis Seminar, 21 credit hours in studio chosen from 05.520-1; 05.533; 05.560; 05.700; 05.792; 05.793; and nine credit hours in graduate art history of which at least six must be in the thesis field (painting or sculpture).

Written Comprehensive Examination

One is required in the theory and techniques of painting or sculpture, with one-third devoted to techniques and two-thirds to theory.

CORE FIELD (select one)

05.010 Theory and Techniques of Painting

05.011 Theory and Techniques of Sculpture

Thesis

Execution of an original work or works of art defended by written critical analysis of problem undertaken.

Master of Arts

ART HISTORY

Admission Requirements

A minimum grade average of 3.00 in the undergraduate major is required. If the undergraduate major was not in art history, students admitted to the program will be required to have completed or to complete 18 hours in art history in addition to 30 hours required for

the degree. Reading knowledge of French, German or Italian must be certified during first semester (see tools of research requirement).

Course Requirements

A minimum of 30 credit hours of approved graduate course work (combined total of at least 48 credit hours of undergraduate and graduate art history) including 6 credit hours in graduate research seminars (07.792 or 07.793). Within the overall aim of the department program, including these requirements, individual plans of study are defined by the student.

Written Comprehensive Examinations

Two, including one examination in core field and one in specialized field.

CORE FIELD

07.003 History of Western Art (Greek to Modern)

SPECIALIZED FIELDS (select one)

07.009 Medieval Art

07.010 Renaissance Art

07.011 Baroque and Rococo Art

07.012 Nineteenth and Twentieth Century Art

07.020 Art in the United States

Thesis Substitution

Satisfactory completion of a substantial research paper in each of two master's research seminars on the .600-.700 level is required to complete the degree.

Courses of Instruction

Undergraduate level course values are expressed as *course units* according to the following decimal notations: (c 00.25) = $\frac{1}{4}$ course unit; (c 00.50) = $\frac{1}{2}$ course unit; (c 00.75) = $\frac{3}{4}$ course unit; (c 01.00) = 1 course unit; (c 01.50) = $1\frac{1}{2}$ course units; etc.

Graduate level course values are expressed as *semester credit hours* according to the following decimal notations: (s 01.00) = 1 semester hour; (s 02.00) = 2 semester hours; (s 03.00) = 3 semester hours; etc. There are no fractional semester credit hours.

Undergraduate Courses

STUDIO

05.104 Introduction to Visual Form (c 01.00)

Develops visual perception and presents formal and theoretical background necessary for informed understanding of painting, sculpture, architecture. Lectures, discussion groups from visual material.

05.120 Fundamentals of Drawing and Painting (c 01.00)

Basic training in translating perception into the formal language of painting and drawing. Course time is divided between the two disciplines, but emphasis is on painting (counts as a painting course to satisfy requirements in all majors except fine arts).

05.130 Oil Painting (c 00.25)

Basic problems of figure and still life painting. Emphasis on color and design. Primarily for amateurs, students other than art majors. May be repeated for credit.

05.160 Sketch Class (c 00.25)

Life drawing with emphasis on rapid sketch. May be repeated for credit.

05.320 Creative Painting (c 01.00)

Studies in color, composition and drawing from still life and figure and in individually assigned projects. May be repeated for credit, but not in the same semester. *Prerequisite:* 5.120 or equivalent.

05.340 Sculpture (c 01.00)

Problems and principles of sculpture. Acquaintanceship with tools, techniques, materials for plastic expression. May be repeated for credit but not in the same semester.

05.344 Ceramics (c 01.00)

Explores basic principles of working with clay. Instruction both in wheel and other methods of making pottery. Beginning and intermediate sections. May be repeated for credit.

05.360 Drawing (c 01.00)

Structural drawing from the human figure: movement, expression. Range of techniques and mediums. May be repeated for credit, but not in the same semester.

05.364 Printmaking: Woodcut and Surface Print (c 01.00)

The exploration of woodcut and relief print as media of creative expression. Emphasis on experimentation and control. *Prerequisite:* 2 courses in drawing or 1 course in drawing and 1 course in design.

05.365 Printmaking: Silkscreen (c 01.00)

Exploration of serigraphy. Intensive work with different techniques. *Prerequisite:* 05.364, or 2 courses in drawing or 1 course in painting and 1 course in design.

DESIGN**05.348 Design Techniques I (c 01.00)**

Exploration and analysis of graphic means and structures for design presentation. May not be repeated for credit. Design Techniques I and II are independent and need not be taken in sequence. *Prerequisite:* 05.350 and 05.351 or concurrent registration.

05.349 Design Techniques II (c 01.00)

May not be repeated for credit. Design Techniques I and II are independent and need not be taken in sequence. *Prerequisite:* 05.350 and 05.351 or concurrent registration.

05.350 Design Fundamentals: Color (c 01.00)

Study of properties of color, color juxtapositions and interaction. Design Fundamentals I and II are independent and need not be taken in sequence. May not be repeated for credit.

05.351 Design Fundamentals: Two-Dimensional (c 01.00)

Fundamentals of space, color, and form relationships in graphic design. Design Fundamentals I and II are independent and need not be taken in sequence. May not be repeated for credit.

05.352 Lettering and Typography I (c 01.00)

Theory and analysis of letter forms as design and symbol. Study of type faces, arrangement and setting. *Prerequisite:* 5.351 or permission.

05.353 Lettering and Typography II (c 01.00)

Continuation of 5.352; particular application to advertising design. *Prerequisite:* 5.352, or permission.

05.356 Advanced Design I (c 01.00)

Experimentation and practice in design problems relating to visual communication; emphasis on techniques and solutions of professional problems. *Prerequisite:* 5.350-1 and 5.348-9 or permission.

05.357 Advanced Design II (c 01.00)

Practical consideration and execution of complex design problems involving previous design training. Continuation of 5.356. *Prerequisite:* 5.356 or permission.

05.378 Problems of Traditional Interiors (c 01.00)

Intensive investigation of aesthetic solutions to the designing of period interiors. Lectures and laboratory. *Prerequisites:* 7.103 and 5.369 and official admission to program.

05.379 Problems in Modern Interiors (c 01.00)

Intensive investigation of aesthetic solutions to the designing of modern interiors. Lectures and laboratory. *Prerequisites:* 7.103 and 5.369 and official admission to program.

05.388 Interior Design Sources (c 01.00)

Theory and practice of interior designs including the design, specification and fabrication of furnishings and equipment for interiors. Lectures and projects. *Prerequisite:* 5.369 and official admission to program.

05.389 Senior Problems in Interior Design (c 01.00)

Analysis, organization and solution of complex design problems in definitive and professional presentations. Laboratory. *Prerequisites:* 4 courses of interior design including 5.379 and 5.388 and official admission to program.

ART EDUCATION**05.370 Crafts for Art Teachers (c 01.00)**

Exploration of various 2-dimensional and 3-dimensional crafts appropriate to teaching art at secondary level through studio practice. Art majors only. *Prerequisites:* junior or senior standing with 4 studio courses and portfolio review.

05.371 Method of Teaching Art in Elementary and Secondary Schools (c 01.00)

Theoretical and practical considerations of teaching art at secondary level through lecture, discussion and observation. Meets for 6 weeks prior to 9 weeks of student teaching. Must be taken in senior year in conjunction with 21.445 Student Teaching: Secondary Schools (9). Art majors only. *Prerequisites:* 5.370 and admission to 21.445.

05.380 Teaching Art in Elementary Schools (c 01.00)

Methods and techniques of teaching art as part of regular elementary school instruction. Limited to education majors in elementary school program or permission.

05.390 Independent Readings in Art (c 00.25 through 02.00)

See Independent Reading Courses and Study Projects under General Curriculum Information.

05.490 Independent Project in Art (c 00.25 through 02.00)

See Independent Reading Courses and Study Projects under General Curriculum Information. Note: Not recommended in studio, see Chairman.

ART HISTORY**07.100 Survey of Art I: Ancient and Medieval (c 01.00)**

Illustrated historical introduction to architecture, sculpture and painting presented as an objectification and record of man's major beliefs and ideas to 1500. Field trips.

07.101 Survey of Art II: Renaissance and Modern (c 01.00)

Illustrated historical introduction to architecture, sculpture and painting in Western world between 1500 and 1950. Field trips. *Prerequisite:* 7.100 or equivalent.

07.102 Survey of the Decorative Arts I (c 01.00)

Illustrated historical introduction to decorative arts, furniture, and interior architecture, Greece through the 17th century.

07.103 Survey of the Decorative Arts II (c 01.00)

Illustrated historical introduction to decorative arts, furniture, and interior architecture, from the 18th through the 20th centuries. *Prerequisite:* 7.102.

07.105 Introduction to the History of Art (c 01.00)

Artistic expression, styles, and purposes from ancient times to the present, as shown by comparative study of a limited number of artists and works of art. Open only to non-majors.

07.301 Greek Art (c 01.00)

Greek art and architecture from the Archaic period through the Hellenistic.

07.302 Roman Art (c 01.00)

The art and architecture of Rome from the Republic through the Empire. *Prerequisite:* 7.100 or 7.301.

07.306 20th Century Art (c 01.00)

Painting, sculpture and architecture since 1900 in Europe and the United States. Investigates aesthetic theories common to contemporary art movements.

07.307 Oriental Art: An Introductory Survey (c 01.00)

Highlights of Asian art, with emphasis on: the artistic achievements of India, China, and Japan; interrelationships and influences; cultural, religious, and historical factors.

07.309 Oriental Art: Japanese (c 01.00)

Main currents and monuments of Japanese art from prehistoric to modern times.

07.310 African Art (c 01.00)

Familiarizes the student with the heritage of sub-Sahara Africa. Emphasis on advanced civilizations of the upper Nile, Ethiopia, and Nigeria.

07.390 Independent Reading in Art History (c 00.25 through 02.00)

See Independent Reading Courses and Study Projects under Other Academic Regulations.

07.490 Independent Project in Art History (c 00.25 through 02.00)

See Independent Reading Courses and Study Projects under Other Academic Regulations.

Graduate Courses

All courses listed below carry graduate credit. .500 level courses are open to graduate and qualified undergraduate students. Undergraduate students in .500 level courses receive one course unit for 3 or 4 semester hour credits. Courses at the .600 and .700 levels are open to graduate students only.

STUDIO**05.520 Techniques of Etching I (s 03.00)**

Investigation of etching and its various techniques. May be repeated once for credit, but not in the same semester. *Prerequisite:* 05.364 or 05.365 or 4 courses in drawing.

05.521 Techniques of Etching II (s 03.00)

Continuation of 5.520. May be repeated once for credit. *Prerequisite:* 5.520.

05.533 Materials and Techniques of Painting (s 03.00)

Technical investigation of painting methods from Renaissance to present. Preparation of grounds, media, underpainting, glazing, emulsions for tempera, etc. *Prerequisite:* 4 painting courses.

05.560 Drawing (s 03.00)

Experiments in the creative and expressive quality of drawing. Personal creative expression. *Prerequisites:* Admission to graduate program in Fine Arts or permission.

05.590 Independent Readings in Art (s 01.00 through 06.00)

See Independent Reading Courses and Study Projects under General Curriculum Information.

05.690 Independent Project in Art (s 01.00 through 06.00)

See Independent Reading Courses and Study Projects under General Curriculum Information.

05.700 Criticism of Painting (s 03.00)

Theoretical and philosophical consideration of painting. Detailed analysis of artistic works. Lecture and slides. *Prerequisite:* admission to graduate program in Fine Arts or permission.

05.792 Art Laboratory—Painting (s 03.00)

Intensive investigation of ideas and techniques in painting. Emphasis on experimentation, leading to development of individual style. *Prerequisites:* Admission to graduate program in Fine Arts or permission.

05.793 Art Laboratory—Sculpture (s 03.00)

Intensive investigation of sculpture with emphasis on experimentation leading to individual style. *Prerequisites:* Admission to graduate program in Fine Arts or permission.

05.794 Directed Project in Fine Arts (s 03.00)

Open only to M.F.A. candidates who have completed 6 credit hours of 5.792 or 5.793 (Art Laboratory). Student arranges independent study in painting or sculpture (etching may be specially arranged for students doing thesis in etching) under individual faculty with approval of faculty member and department chairman. Qualitative grade will be given. May be repeated for credit.

05.797 Master's Thesis Seminar (s 03.00 through 06.00)

M.F.A. candidate with permission of chairman.

ART HISTORY**07.500 Approaches to Art History (s 03.00)**

Required for undergraduate art history majors. Recommended for graduate art history students. Readings, discussion, and written work based on selected topics. Consideration of problems in formal analysis, style, iconography, and quality. Attention given to critical interpretation and writing research papers in art history. *Prerequisite:* 4 courses in art history or graduate status.

07.501 Baroque Painting (s 03.00)

17th century painting in Italy, Spain, France, the Netherlands, and England. Emphasis on Caravaggio, Rubens, Rembrandt, Vermeer, Poussin, and Velasquez. *Prerequisite:* 2 art history courses including 7.101 or equivalent.

07.502 Mediterranean Medieval Art (s 03.00)

Early Christian in Italy; Byzantine in the Near East; Romanesque in Italy. *Prerequisite:* 2 undergraduate art history courses including 7.100 or equivalent.

07.503 North European Medieval Art (s 03.00)

Art from early Christian period to 1400 (manuscript illuminations, French cathedrals, sculpture, stained glass). *Prerequisite:* 2 undergraduate art history courses including 7.100 or equivalent.

07.504 Gothic Art (s 03.00)

Architecture, painting, sculpture, manuscript illuminations and stained glass from 12th to 15th centuries in Europe. *Prerequisite:* 2 art history courses including 7.100 or equivalent.

07.506 Renaissance Sculpture (s 03.00)

Italian sculpture from 1400 to 1700 with stress on achievements of Donatello, Michelangelo, Bernini. *Prerequisite:* 2 art history courses including 7.101 or permission of instructor.

07.507 Modern Sculpture (s 03.00)

Changes in sculpture from 1700 to present with stress on innovations of Rodin, Brancusi, Moore and American abstractionists. *Prerequisite:* 2 art history courses including 7.101 or permission of instructor.

07.508 Painting: Rococo through Impressionism (s 03.00)

Painting in 18th and 19th century Europe; styles of Rococo, Neo-Classicism, Romanticism, Realism, and Impressionism; emphasis upon Watteau, David, Delacroix, Goya, and Monet. *Prerequisite:* 2 art history courses including 7.101 or equivalent.

07.509 Modern Painting (s 03.00)

Painting in Europe and America from Post-Impressionism through contemporary painters, dealing with cubism, fauvism, surrealism, and abstract expressionism. Concentration upon major artists, e.g., Cezanne, Van Gogh, Gauguin, Picasso, and Matisse. *Prerequisite:* 2 art history courses including 7.101 or equivalent.

07.510 Northern Renaissance Painting (s 03.00)

Painting in France, Germany and the Netherlands from the late 14th through the 16th centuries. Emphasis upon major artists such as Jan van Eyck, Durer, Holbein, Bruegel. *Prerequisite:* 2 art history courses including 7.101 or equivalent.

07.513 Early Renaissance Painting (s 03.00)

Developments in the various artistic centers examined in respect to the formulation and solution of Renaissance pictorial problems from 1300–1475. *Prerequisite:* 2 courses in art history including 7.101.

07.514 16th Century Italian Renaissance Painting (s 03.00)

Development of High Renaissance, Mannerist and proto-Baroque styles; major artistic personalities: 1475–1580. *Prerequisite:* 2 courses in art history including 7.101.

07.515 Graphic Art (s 03.00)

Unique qualities of graphic art (drawing and prints). Renaissance to present. *Prerequisite:* 2 art history courses including 07.101 or equivalent.

07.516 Fifteenth and Sixteenth Century Architecture (s 03.00)

Renaissance and Mannerist periods in European architecture. Emergence of classicism from the Gothic past. Covers architecture and city planning and attempts to explain new forms in terms of political and social developments. *Prerequisite:* 2 courses in art history including 7.100 or 7.101.

07.517 Seventeenth and Eighteenth Century Architecture (s 03.00)

Architecture and city planning from the Baroque to the French Revolution. Seeks to correlate changing forms and political, social events. *Prerequisite:* 2 courses in art history including 7.101.

07.518 Nineteenth and Twentieth Century Architecture (s 03.00)

Modern period architecture; encounter of architecture with machine age. *Prerequisite:* 2 courses in art history including 7.101.

07.520 Seminar in Art History (s 03.00)

Reports and critical discussion of research papers on topic announced for semester. May be repeated for credit. *Prerequisite:* 6 art history courses and permission.

07.531 Painting and Sculpture in the United States, to 1865 (s 03.00)

Painting and sculpture in the United States, from the colonial period to the Civil War, with attention to relationships with European art. *Prerequisite:* two courses in art history including 07.101 or the equivalent or permission.

07.532 Painting and Sculpture in the United States, from 1865 to the Present (s 03.00)

Painting and sculpture in the United States, from the Civil War to the present, with attention to relationships with European art. *Prerequisite:* two courses in art history including 07.101 or the equivalent or permission.

07.533 American Architecture to 1870 (s 03.00)

Development of American architecture to about 1870, relating it to European developments. *Prerequisite:* two courses in art history including 07.101 or the equivalent or permission.

07.534 American Architecture: 1870 to the Present (s 03.00)

American architecture and city planning from the post-Civil War period to the present. *Prerequisite:* two courses in art history including 07.101 or the equivalent or permission.

07.590 Independent Reading in Art History (s 01.00 through 06.00)

See Independent Reading Courses and Study Projects under General Curriculum Information.

07.690 Independent Project in Art History (01.00 through 06.00)

See Independent Reading Courses and Study Projects under General Curriculum Information. Note: See also 07.793.

07.792 Research Seminar in Art History (s 03.00)

Seminar limited to one of five areas. Specific topics announced each semester. May be repeated for credit but only in a different period.

- I. Medieval art
- II. Renaissance art
- III. Baroque and Rococo art
- IV. 19th and 20th century art
- V. American art

Prerequisites: Open only to M.A. candidates with 12 credit hours of graduate art history with a B average. Permission of department chairman required.

07.793 Directed Research in Art History (s 03.00)

Topic arranged. Must be in fields listed under 7.792 but not in field covered in 7.792 that semester. May not be repeated for credit. *Prerequisites:* open only to M.A. candidates with 12 credit hours of graduate art history with a B average. Permission of department chairman required.

Biology

Correspondence Directory: Billy R. Griffin, *Chairman*

Fields of Study

General biology, microbiology, plant sciences, developmental biology, genetics, immunology, physiology, ecology (environmental science), medical technology, interdisciplinary science studies, and a marine science program combining University courses with those available through the Marine Science Consortium.

Full-time Faculty

Professor: Edward J. Breyere, Sumner O. Burhoe (Emeritus)

Associate Professor: Richard R. Anderson, William C. Banta, Richard H. Fox, Edward R. Pierce, Robert L. Strautz

Assistant Professor: Michael A. Champ, Billy R. Griffin

Senior Research Assistant: Norman H. MacLeod

Undergraduate Degrees

Bachelor of Science, Bachelor of Arts**Admission to the Majors: Biology and Microbiology**

Freshmen and transfer students will be counseled by the department. Students who complete General Biology I and II with a grade of C or better are admissible to the majors.

Composition and Reading Requirement—See Undergraduate Degree Requirements under General Academic Regulations

Language Requirement—See Undergraduate Degree section under the College of Arts and Sciences.

Bachelor of Science**Departmental Requirements****REQUIRED COURSES**

- 09.101, 09.102 General Biology I and II (waived with advanced placement)
- 09.200 Morphogenesis of the Vertebrates
- 09.201 Morphogenesis of the Vertebrates Laboratory
- 09.250 Cell Biology
- 09.304 Comparative Plant Anatomy
- 09.356 Genetics
- 09.357 Genetics Laboratory

Elective Courses in Biology

Elective courses from the .200 through the .500 levels to total 10 courses in biology one of which may be Independent Readings (09.390 or 09.590) or Independent Study Project (09.490), and one of which may be Biochemistry (15.560 or 15.561).

Related Courses

- 15.310-.311, 15.320-.321 Organic Chemistry I and II with laboratories (proof of competence in General Chemistry is required.)
 51.220-.221, 51.222-.223 Introduction to Physics I and II with laboratories.

Tool courses

- 41.101 Applied Calculus I (competence in basic mathematics is assumed as a prerequisite for this course.)
 69.202 Basic Statistics

Electives

To complete a minimum of 32 courses.

Bachelor of Science in Microbiology**Departmental Requirements**

- 09.101, 09.102 General Biology I and II (waived with advanced placement)
 09.120 Microbes and Man
 09.250 Cell Biology
 09.310 Invertebrate Zoology or 09.532 Parasitism and Symbiology
 09.340 Microbiology
 09.341 Microbiology Laboratory
 09.411 Pathogenic Microbiology
 09.500 Microbial Physiology
 09.541 Immunology or 09.543 Virology

Related Courses

- 15.310-.311, 15.320-.321 Organic Chemistry I and II with laboratories (proof of competence in General Chemistry is required)
 15.350-.351 Quantitative Analysis and Laboratory
 51.220-.221, 51.222-.223 Introduction to Physics I and II with laboratories

Tool Courses

- 41.101 Applied Calculus I (competence in basic mathematics is assumed as a prerequisite for this course)

Electives

To complete a minimum of 32 course units.

Bachelor of Arts

(Not designed for students planning to enter medical, dental school or graduate school in biology.)

Departmental Requirements**REQUIRED COURSES**

- 09.101, 09.102 General Biology I and II
 09.200 Morphogenesis of the Vertebrates
 09.304 Comparative Plant Anatomy
 09.310 Invertebrate Zoology
 09.330, 09.331 Human Anatomy and Physiology I and II
 09.356 Genetics
 09.523 General Ecology

ELECTIVE COURSES IN BIOLOGY

One free elective to be chosen from the .100 through the .500 level (except 09.100).

RELATED COURSES

- 15.120 and 15.130 General Chemistry I and II
 15.121 and 15.131 General Chemistry I and II Laboratory

Electives

To complete a minimum of 32 courses.

Interdepartmental Sciences

Medical Technology, see Interdepartmental Science section.

Marine and Environmental Sciences, see Interdisciplinary Programs section.

Graduate Degree

Candidates for graduate degrees in all departments are subject to University Graduate Degree Requirements (see Graduate Degree Requirements under General Academic Regulations). Requirements given below list the minimal requirements from a departmental point of view. University requirements that exceed these requirements are nonetheless binding upon the student.

Master of Science**Entrance Requirements**

Evidence of having taken the Graduate Record Examination (Advanced Test in Biology) and evaluation by the Departmental Graduate Admissions Committee.

Course Requirements

Minimum of 32 hours of approved graduate work, including 09.797, Master's Thesis Research (6) and two hours of Graduate Seminar, 09.700.

Written Comprehensive Examination

One selected from the fields listed below:

- 09.001 General Biology (for MSST candidates only)
- 09.002 Plant Sciences
- 09.003 Developmental Biology
- 09.004 Physiology
- 09.005 Microbiology
- 09.006 Environmental Science-Ecology
- 09.007 Genetics
- 09.008 Immunology
- 09.009 Zoology

Other Requirements

Those listed in the Biology Department Graduate Manual, advancement to candidacy, thesis and oral defense.

Interdepartmental Graduate Degrees

See the Interdepartmental Science section concerning requirements for the Master of Science in Science Teaching.

Courses of Instruction

Undergraduate level course values are expressed as *course units* according to the following decimal notations: (c 00.25) = $\frac{1}{4}$ course unit; (c 00.50) = $\frac{1}{2}$ course unit; (c 00.75) = $\frac{3}{4}$ course unit; (c 01.00) = 1 course unit; (c 01.50) = $1\frac{1}{2}$ course units; etc.

Graduate level course values are expressed as *semester credit hours* according to the following decimal notations: (s 01.00) = 1 semester hour; (s 02.00) = 2 semester hours; (s 03.00) = 3 semester hours; etc. There are no fractional semester credit hours.

Undergraduate Courses**09.100 Human Biology (c 01.00)**

Current topics in biology: population dynamics, human ecological factors, genetics and evolution, transplantation biology, biological effects of human environmental pollution and human nutrition. This course is designed for non-biology majors.

09.101-9.102 General Biology I and II (c 01.00) (c 01.00)

A two-semester series to be taken in sequence. First semester, General Biology I, introduces basic chemical principles of biology and is concerned with aspects of molecular and cellular organization as these may concern anabolism, catabolism and reproduction. Second semester, General Biology II, includes consideration of higher levels of organization and the relationship of form and function in ecological adaptations.

09.120 Microbes and Man (c 01.00)

A survey of the beneficial and detrimental properties of microbes to human welfare, designed for the non-biology, non-science major. Topics to include: role of microbes in the turnover of matter; role of microbes in the brewery and dairy industries; role of microbes as agents of disease (venereal diseases); role of microbes in municipal water treatment processes; and the application of microbes in testing for biological systems of extra-terrestrial environments, and the problems of microbes to space travel. Other topics of current interest. No prerequisites. This course is designed for non-biology majors.

09.130 Human Heredity (c 01.00)

Discussion of inheritance of normal physical and mental traits, common genetic diseases and defects, genetic counseling, social implications of genetics, genetic implications of social forces, inherited racial differences, with emphasis on information the layman wants, rather than the mechanics of inheritance *per se*. No prerequisites. This course is designed for non-biology majors.

09.200 Morphogenesis of the Vertebrates (c 01.00)

Embryological and evolutionary developmental processes of vertebrate organisms. Laboratory optional for non-biology majors. *Prerequisite*: one semester of biology or permission of instructor.

09.201 Morphogenesis of the Vertebrates Laboratory (c 00.50)

Includes examination of prepared slides, dissection of vertebrate specimens, and examination of living material that shows comparative aspects of embryological and evolutionary development. Must be taken concurrently with 09.200.

09.203 Introduction to Oceanography (c 01.00)

Marine geology, oceanography, life in the sea, fisheries, marine technology, international law. Economic aspects of animals in the sea. *Prerequisite*: Two courses in natural science or 09.101 General Biology I.

09.210 Evolution (c 01.00)

History of evolutionary thought, mechanisms of evolutionary change, evidence for and theories proposed to account for evolution. *Prerequisite*: One semester of biology or permission of the instructor.

09.225 Environmental Conservation and Wildlife Management (c 01.00)

General principles of ecology. Illustration of how these principles relate to conservation and management of eco-systems. Discussion of endangered species and communities. Conservation and wildlife management practices. Conservation and education. Federal and state laws regulating conservation and management of eco-systems. *Prerequisite*: one natural science course or permission of instructor.

09.250 Cell Biology (c 01.00)

Integrated study of cell structure and function in microorganisms, plants, and animals emphasizing their ultra-structure, biochemistry, and physiology. *Prerequisites*: 09.102.

09.304 Comparative Plant Anatomy (c 01.00)

Morphological and evolutionary account of plant taxa anatomy. *Prerequisite*: 09.102.

09.310 Invertebrate Zoology (c 01.00)

Comparative anatomy of invertebrate animals. Emphasis on aquatic, non-parasitic forms and the evolution of higher taxa. Week-end field trips. *Prerequisite*: 09.102.

09.330–09.331 Human Anatomy and Physiology I and II (c 01.00) (c 01.00)

Two semester course taken in sequence. Morphologic and functional studies of mammalian systems with special reference to man, directed toward understanding of the relationship between normal and abnormal function and homeostasis. Laboratory assignments demonstrate physiologic principles. *Prerequisites:* 09.102 at least one semester of chemistry, and permission of department chairman.

09.335 Vertebrate Physiology (c 01.00)

Properties and physiological processes common to all vertebrates; based on a functional study of vertebrate organ systems. *Prerequisite:* 09.250.

09.340 Microbiology (c 01.00)

Microorganisms and their relation to human welfare. Primary emphasis on bacteria. *Prerequisite:* one semester organic chemistry or permission of instructor.

09.341 Microbiology Laboratory (c 00.50)

Experiments include microscopy, staining techniques, qualitative and quantitative properties of bacterial growth, physiology, and other topics. Optional for non-biology and non-microbiology majors.

09.356 Genetics (c 01.00)

Basic genetic principles and concepts as revealed by classical and modern research methods. Patterns of gene transmission; gene structure, function, interactions, and mutation; chromosomal aberrations; non-chromosomal inheritance; biochemical genetics and population genetics. (Laboratory optional for non-biology majors.) *Prerequisite:* one semester of Biology.

09.357 Genetics Laboratory (c 00.50)

Experiments designed to illustrate basic genetic concepts utilizing materials from corn, *Drosophila*, and man. Optional for non-biology majors.

09.390 Independent Reading Course in Biology (c 00.25 through 02.00)

See Independent Reading Courses and Study Projects under General Curriculum Information.

09.411 Pathogenic Microbiology (c 01.00)

This course is designed to familiarize students with basic principles of disease epidemiology and etiology. Concentrating on bacterial and virus diseases, the course offers practical laboratory experience in study of these agents and their effects. *Prerequisite:* General Microbiology.

09.455 Proseminar in Biology (c 00.50)

Seminar for undergraduates. Preparation and presentation of lectures and demonstrations on biological topics. *Prerequisites:* junior or senior standing in biology and permission of the instructor.

09.490 Independent Study Project in Biology (c 00.25 through 02.00)

See Independent Reading Courses and Study Projects under General Curriculum Information.

Graduate Courses

All courses listed below carry graduate credit. .500 level courses are open to graduate and qualified undergraduate students. Undergraduate students in .500 level courses receive one course unit for 3 or 4 semester hour credits. Courses at the .600 and .700 levels are open to graduate students only.

09.500 Microbial Physiology (s 04.00)

General approach to analysis of principles of intermediate metabolism of microorganisms, emphasis on bacteria. Topics included are: storage and utilization of energy, metabolic reactions of chemosynthetic organisms, metabolism associated with biosynthesis and growth. Discussion on unique physiological systems of microbes in relation to structure. Laboratories stress the diversity of physiological processes of bacteria. *Prerequisites:* General Microbiology, Organic Chemistry, (Biochemistry recommended but not required).

09.501 Cooperative Work-Study at the National Aquarium (s 04.00)

Maintenance, breeding, disease control, and rearing of aquatic animals in freshwater and marine controlled filtered aquaria. Field collection and taxonomy of aquatic animals. This cooperative work-study program is designed to provide students with practical work experience in aquatic biology that will augment their academic study program. The course is also designed to have the student develop and conduct a research problem or prepare a review paper on some aspect of the field. Students may be hired as Fisheries Biologists-Trainees, GS-4, to support tuition expenses. *Prerequisite:* permission from Dr. Champ, Room 4, Hurst Hall.

09.502 Cooperative Work-Study at the Lightship Chesapeake (s 04.00)

Organization and coordination of environmental programs through the National Park Service's Operation Lightship Chesapeake on the Potomac River watershed. Designed to provide students with practical field experience in aquatic biology. Another option available to students is to conduct a research project or prepare a paper on the Potomac River. The tuition for the course will be paid by the Lightship Chesapeake. *Prerequisite:* permission from Dr. Champ, Room 4, Hurst Hall.

09.510 Immunogenetics (s 03.00)

Genetic control of immunologic reactions; inheritance of cell-borne antigens determining blood groups and transplantation of cells, tissues and organs. Current concepts of related immunologic phenomena. *Prerequisite:* two courses in Biology.

09.520 Limnology (s 04.00)

A study of the physical, chemical, and biological properties of fresh water environments. Ponds, lakes, reservoirs, rivers, and estuaries are studied as integrable systems of standing or flowing waters. Geochemical cycles and contribution of urban and terrestrial components to these systems. *Prerequisite:* senior or graduate standing.

09.523 General Ecology (s 04.00)

Aquatic and terrestrial ecology; principles stressed through extensive field work; aquatic phase with emphasis on estuarine ecosystems, terrestrial phase with emphasis on synecology in various ecosystems. *Prerequisite:* senior or graduate standing in biology.

09.524 Systems Ecology (s 04.00)

Study of systems ecology organisms at the population and community levels. Principles of plant and animal ecology, an evolutionary approach to environmental selection and a detailed presentation of the communities of various habitats. Selected topics in behavior. *Prerequisite:* General Ecology (09.523).

09.525 Plant Taxonomy (s 04.00)

Study of vascular plants from phylogenetic taxonomic viewpoint. Laboratory includes preparation of herbarium specimens, techniques in preserving plants and practice in use of taxonomic keys. *Prerequisite:* senior or graduate standing in biology.

09.526 Comparative Mammalian Embryology (s 04.00)

Descriptive aspects of embryology of the mammal. Emphasis on development of the human. *Prerequisites:* 09.200 and 09.201.

09.531 Animal Histology (s 04.00)

Structures and properties of cells. Microscopic study of tissues and organs of representative mammals, including man. *Prerequisite:* senior or graduate standing in biology.

09.532 Parasitism and Symbiology (s 04.00)

Life cycles, morphogenesis, physiology and behavior of symbionts, classical parasitology with symbiotic relationships, be they mutualism, cooperation, or parasitism. Laboratories deal with identification and taxonomy. *Prerequisite:* senior or graduate standing in biology.

09.535 Endocrinology (s 04.00)

Structure and function of endocrine glands with emphasis on their control of mammalian functional processes. *Prerequisite:* advanced standing in biology and organic chemistry.

09.541 Immunology (s 04.00)

Basic immunological principles. Emphasis on the relationship between in-vitro detection of immune factors and the in-vivo demonstration of their effects. Laboratory includes individual projects and literature reviews are required of graduate students. *Prerequisites:* 09.340 and senior or graduate standing in biology.

09.543 Virology (s 04.00)

Nature and properties of plant, animal, and bacterial viruses. Laboratory techniques for cultivation and manipulation of viruses. *Prerequisites:* 09.340, one year of organic chemistry, and senior or graduate standing in biology.

09.550 Scientific Publication (s 04.00)

Tools necessary for publication of a scientific paper. Emphasis on microscopy, photomicroscopy, macrophotography, illustration, writing, editing, printing, employment. *Prerequisite:* full-time graduate standing in biology or permission of the instructor.

09.555 Water Pollution Biology (s 02.00)

Use of biological indicators of pollution in fresh water, estuarine and salt water environments. Effects of pollution on aquatic eco-systems from the system level to the species level. Lecture and laboratory may not be taken separately for biology majors. *Prerequisite:* senior or graduate standing.

09.556 Water Pollution Biology Laboratory (s 04.00)

The laboratory consists of analytical techniques for chemical, physical, and biological parameters which are affected by pollution. Includes specific methods for bio-assays and collection and analysis of field data. Lecture and laboratory may not be taken separately for biology majors. *Prerequisite:* senior or graduate standing.

09.560 Human Genetics (s 04.00)

Genetics of man: normal and abnormal karyotypes; human biochemical genetics; genes in individuals, kindreds and populations. *Prerequisites:* 09.356, advanced standing in biology, or instructor's permission.

09.570 General Entomology (s 04.00)

Morphology, life history, classification, and economic importance of insects. Two hours of lecture, four hours of laboratory. *Prerequisite:* senior or graduate standing in biology.

09.571 Special Topics in Ecology (s 01.00 through 04.00)

May be repeated for credit if a different topic is covered. *Prerequisite:* one course in basic ecology.

09.572 Special Topics in Vertebrate Physiology (s 01.00 through 04.00)

May be repeated for credit if a different topic is covered. *Prerequisite:* permission of instructor.

09.573 Special Topics in Microbiology (s 01.00 through 04.00)

May be repeated for credit if a different topic is covered. *Prerequisite:* permission of instructor.

09.574 Special Topics in Genetics (s 01.00 through 04.00)

May be repeated for credit if a different topic is covered. *Prerequisite:* permission of instructor.

09.575 Special Topics in Immunology (s 01.00 through 04.00)

May be repeated for credit if a different topic is covered. *Prerequisite:* permission of instructor.

09.576 Special Topics in Zoology (s 01.00 through 04.00)

May be repeated for credit if a different topic is covered. *Prerequisite:* permission of instructor.

09.580 Microbial Ecology (s 04.00)

Relationships between microorganisms and their environment; bacteria, fungi, algae, protozoa, actinomycetes and viruses. The study will deal with the relations between such organisms and their sites of occurrence, their habitats, their effects upon other biota and their ultimate effect on man. *Prerequisite:* General Microbiology.

09.590 Independent Reading Course in Biology (s 01.00 through 06.00)

See Independent Reading Courses and Study Projects under General Curriculum Information.

09.603 Introduction to Oceanography (s 04.00)

Origin of the earth, chemical and physical character of sea water, marine geology, atmospheric circulation, currents, waves, tides, sediments, instrumentation, economic aspects of marine life, marine ecology. Weekend field trips. Students attend lectures for 09.203, Introduction to Oceanography (undergraduate). Meetings are held one hour and 15 minutes each week in addition to the undergraduate course hours. *Prerequisite:* permission of instructor.

09.623 Marine Ecology (s 03.00)

Influence of the physical and biological environment on the distribution of marine and estuarine organisms. Emphasis on productivity, diversity, and the impact of man on economically valuable environments. *Prerequisite:* 09.523.

09.624 Marine Ecology Laboratory (s 02.00)

Laboratory and field experience in sampling, measuring, and identifying marine and estuarine organisms. Measuring physical conditions with standard oceanographic instruments. Experimental cultivation of marine organisms. To be taken concurrently with 09.623.

09.690 Independent Study Project in Biology (s 01.00 through 06.00)

See Independent Reading Courses and Study Projects under General Curriculum Information.

09.700 Graduate Seminar (s 01.00)

Selected Topics, may be repeated once.

09.710 Transplantation Biology (s 03.00)

Practical and theoretical study of immunogenetic phenomena as related to transplantation, cancer and reproduction. *Prerequisites:* permission of instructor.

09.730 Advanced Cell Physiology (s 04.00)

Emphasizes the structure and functions of cellular components: chromosomes, mitochondria, membranes, nuclear-cytoplasmic interactions, and chloroplasts. It also offers current information about mechanisms involved. *Prerequisites:* 09.250 and graduate standing in biology or permission of instructor.

09.731 Selected Topics in Advanced Molecular Biology (s 01.00)

Selected topics will include membrane structure, junctions, membrane-polysome interactions, up-to-date information in nucleic acid research, cellular responses to cyclic AMP, prostaglandins and neurobiology, learning, memory, and effects of drugs, etc. *Prerequisites:* 09.730, Advanced Cell Physiology, and permission of instructor.

09.733 Radiation Biology (s 03.00)

Biological aspects of ionizing radiation in relation to the whole organism, to organ systems, cellular and subcellular structures through laboratory experiments. *Prerequisite:* graduate standing.

09.752 Bacterial Genetics (s 03.00)

Genetic principles applicable to bacteria and viruses. Mutation, recombination, transformation, conversion, transduction, bacteriophage, molecular genetics. *Prerequisites:* 9.340, 9.356, and graduate standing in biology.

09.761 Experimental Embryology (s 04.00)

Mechanisms of fertilization, differentiation and growth of vertebrates. Laboratory projects include experimental tests with selected vertebrate embryonic tissue cultures. *Prerequisite:* graduate standing in biology, 09.200, 09.201, 09.526.

09.797 Master's Thesis Research (s 03.00 through 06.00)**Medical Technology**

The following courses (09.360 through 09.369) are open only to senior students in the Medical

Technology program. See Admission for Undergraduates section under Admission Information and contact Dr. Richard Anderson, Room 110, Hurst Hall.

09.360 Blood Bank (c 01.25)

Genetics of blood groups and sub-groups. Donor screening and recruitment, blood processing, component preparations, transfusion reactions, AAB and NIH standards. Lecture and laboratory. *Prerequisite:* Senior in Medical Technology.

09.361 Clinical Parasitology (c 00.50)

Identification of human protozoan and helminth parasites by microscopic, chemical and immunologic techniques. Invertebrate parasite vectors. Lecture and laboratory. *Prerequisite:* Senior in Medical Technology.

09.362 Immunology and Serology (c 00.25)

Principles of the immune response from a clinical point of view. Serological testing, heterophile tests, fluorescent antibody theory and technique, febrile agglutination, anti-streptolysin titre, latex procedures, colloidal gold and complement fixation theory. *Prerequisite:* Senior in Medical Technology.

09.363 Urinalysis and Clinical Microscopy (c 00.25)

Study of the urine to infer renal function. Anatomy and physiology of the urinary system, physical and chemical characteristics of normal and pathologic urine. Renal function tests, introductory histopathology, slide preparation, frozen sections, quality control procedures. Lecture and laboratory. *Prerequisite:* Senior in Medical Technology.

09.364 Hematology (c 01.50)

Hematopoiesis, morphology of red and white blood cells, hemoglobinopathy, hematology case studies. Emphasis on differential white cell counts to determine pathological abnormalities. Lecture and laboratory. *Prerequisite:* Senior in Medical Technology.

09.365 Laboratory Management and Basic Statistics (c 00.25)

Introduction to research evaluation, application of statistics to interpreting laboratory results, reading scientific articles, care and handling of instruments, quality control, personnel and public relations. Lecture and laboratory. *Prerequisite:* Senior in Medical Technology.

09.366 Clinical Chemistry (c 01.75)

Principles underlying biochemical diagnosis of human disease. Analytical chemistry, protein-free filtrates, chemical fractionation of protein, lipids and liver function tests, inorganic substances, classification and determination of enzymes, acid-base balance, hormones and toxicology. Lecture and laboratory. *Prerequisite:* Senior in Medical Technology.

09.367 Clinical Microbiology and Mycology (c 01.75)

Diagnosis of disease caused by bacteria, fungi, and viruses. Bacterial morphology, physiology, and genetics. Immune theory, cultivation of pathogens. Tissue and organ culture. Identification of microbes. Lecture and laboratory. *Prerequisite:* Senior in Medical Technology.

09.368 Coagulation (c 00.25)

Acquired and genetic pathological bleeding conditions. Assay for blood proteins involved in blood clot formation. Bone marrow response to coagulopathy. Lecture and laboratory. *Prerequisite:* Senior in Medical Technology.

09.369 Clinical Pathology (c 00.25)

A summary and correlation of Medical Technology courses taken in the senior year. How to write scientific and technical papers. Students write a paper comparing two laboratory methods. *Prerequisite:* Senior in Medical Technology.

Chemistry

Correspondence Directory: Leo Schubert, *Chairman*

Fields of Study

General chemistry, biochemistry, organic chemistry, inorganic chemistry, physical chemistry, analytical chemistry, electrochemistry, polymer chemistry, and earth sciences.

Full-time Faculty

Professor: Mary H. Aldridge, Robert T. Foley, Matthew Norton, Frederick A. H. Rice, Leo Schubert

Associate Professor: Ann Baker Braun, Thomas S. Cantrell, Frederick W. Carson, Doris E. Hadary, Paul F. Waters

Assistant Professor: Albert F. Hadermann

Senior Research Scientist: Tage Astrup, B. Floyd Brown, Horace S. Isbell

Undergraduate Degree

Bachelor of Science

Admission to the Major

The department counsels freshmen and transfers as well as all declared chemistry majors. A 2.00 average is necessary for admission to the major.

Composition and Reading Requirement—See Undergraduate Degree Requirements under General Academic Regulations.

Language Requirement—See Undergraduate Degree section under the College of Arts and Sciences.

Competence in a modern foreign language, particularly German or Russian, through the intermediate level is urged.

Departmental Requirements**MAJOR COURSES**

- 15.120 and 15.130 General Chemistry I and II
- 15.121 and 15.131 General Chemistry I and II Laboratory
- 15.310 and 15.320 Organic Chemistry I and II
- 15.311 and 15.321 Organic Chemistry I and II Laboratory
- 15.350 Quantitative Analysis
- 15.351 Quantitative Analysis Laboratory
- 15.410 and 15.420 Physical Chemistry I and II
- 15.411 and 15.421 Physical Chemistry I and II Laboratory
- 15.460 Instrumental Quantitative Analysis
- 15.461 Instrumental Quantitative Analysis Laboratory
- 15.550 Advanced Inorganic Chemistry
- 15.523 Organic Analysis and Synthesis

RELATED COURSES

- 51.220 and 51.221 Introduction to Physics I and II
- 51.222 and 51.223 General Physics Laboratory I and II

TOOL COURSES

- 41.111, 41.222, 41.223 Calculus I, II, and III

Electives

To complete a minimum of 32 courses. The student is urged to consider computer science, earth sciences, and biology as electives.

Cooperative Work-Study Program

A cooperative work-study program is part of the program of the Chemistry Department. Work at the research level is available through several cooperating research organizations. The undergraduate student is expected to work full-time for six months and study at the University full-time for five months. A degree may be earned in five years or less. The income received through this program is adequate for self-support through the B.S. degree.

Other Undergraduate Degrees

See Interdepartmental Science section for information concerning requirements for the Bachelor of Science with major in Distributed Sciences.

Graduate Degrees

Candidates for graduate degrees in all departments are subject to University Graduate Degree Requirements (see Graduate Degree Requirements under General Academic Regulations). Requirements given below list the minimal requirements from a departmental point of view. University requirements that are in addition to these requirements are nonetheless binding upon the student.

Master of Science**Admission Requirements**

A B.S. in chemistry with a 2.70 cumulative index in chemistry from an accredited college and approval of The American University Chemistry Department faculty.

Course Requirements

A minimum of 30 hours of approved graduate work, including 15.797 Master's Thesis Seminar (6) and 15.700 Seminar in Chemistry (1). Before this degree is awarded, the student must have completed:

- (1) 15.600 and 15.601 Advanced Physical Chemistry I, II (6) or
15.520 and 15.521 Advanced Organic Chemistry I, II (6).
- (2) 15.551 Topics in Inorganic Chemistry (3) or
15.560 and 15.561 Biochemistry (6).

The entire course of study must constitute a unified program approved by the student's advisor and the chairman of the department. Before the M.S. is awarded the student is expected to have completed either in graduate study or in an undergraduate program:

- 15.550 Advanced Inorganic Chemistry (3) and
- 15.523 Organic Analysis and Synthesis (3).

Advancement to Candidacy

The student is expected to file for advancement to candidacy upon completion of 12 graduate credits.

Cumulative Examinations

Cumulative examinations are administered by the department. Each field in chemistry will schedule at least four such examinations each year. A minimum of three cumulative examinations must be taken. Of these, two must be in the major field and one in a minor field. (This ratio must be maintained in subsequent examinations.) The student should consult with the department chairman about detailed information of the cumulative examination requirements. Fields for the examinations are:

- 15.001 Biochemistry
- 15.002 Organic Chemistry
- 15.003 Inorganic Chemistry
- 15.004 Physical Chemistry
- 15.005 Analytical Chemistry

Thesis Option (6 credit hours)

The student must present a thesis based on laboratory or theoretical research. The thesis must be of publishable quality. The student choosing the thesis option must defend his thesis successfully before his committee.

Non-Thesis Option (6 credit hours)

The student must present a scholarly paper based on a critical review of the literature. The paper must be of publishable quality. To demonstrate the student's ability to carry on original and independent research, he must submit two avenues of investigation for research and defend these, as well as his paper, successfully before his committee. This option is

available only under special circumstances for those who intend to continue work towards the Ph.D.

Tool of Research

The student is required to pass an examination or its equivalent in one of the following:

- Russian
- German
- French
- Computer Programming
- Statistics

Other Master of Science Degrees

See the Interdepartmental Science section concerning requirements for the Master of Science in Science Teaching.

In addition, an M.S. in Chemistry (Information Science) is available through this department in cooperation with the Scientific and Technical Information System Program of the Center for Technology and Administration.

Doctor of Philosophy

Admission Requirements

Either—

1. A 3.00 cumulative index in chemistry from an A.C.S. accredited college and approval by The American University Chemistry Department faculty, or
2. An M.S. or M.A. in Chemistry and approval by The American University Chemistry Department faculty.

Course Requirements

Forty-eight hours of course credits, including two hours of 15.700, Seminar in Chemistry, with the remainder in 15.799, Doctoral Dissertation Seminar (24 credit hours) to total 72 credits. Those transferring from other universities with an M.S. will have a maximum of six hours transfer credit in Master's Thesis seminar accepted towards the credits required for 15.799.

All students must complete the following core courses or submit reasonable approved substitutes:

- 15.520-15.521 Advanced Organic Chemistry I and II (6)
- 15.551 Topics in Inorganic Chemistry (3)
- 15.560-15.561 Biochemistry I and II (6)
- 15.600-15.601 Advanced Physical Chemistry I and II (6)

Advancement to Candidacy

The student admitted directly from a bachelor's program is expected to file for advancement to candidacy upon completion of 18 credits. The student admitted from another university with a Master of Science degree is required to file for advancement to candidacy upon completing nine semester hours.

Cumulative Examinations

Cumulative examinations will be administered by the department. A minimum of four cumulative examinations will be scheduled annually in each of the five cumulative fields. A minimum of six cumulative examinations must be taken; four must be in the major field and two in a minor field. If additional examinations are needed to meet the point requirements, they must be taken in this same ratio. Details on the point system and the nature of the examinations are available from the departmental office.

The fields for the cumulative examinations are to be selected from:

- 15.001 Biochemistry
- 15.002 Organic Chemistry
- 15.003 Inorganic and Nuclear Chemistry
- 15.004 Physical Chemistry
- 15.005 Analytical Chemistry

Dissertation

The student is expected to have selected his research preceptor during or before his second year. The research should demand approximately one year of full-time effort.

Oral Examination

An oral defense of the dissertation will be required. During this examination, the student must present and develop at least one original research idea quite separate from his dissertation. He is expected to defend his research ideas and develop a plan for pursuing it.

Should the research preceptor deem it appropriate, a manuscript suitable for publication in a journal will be required.

Tools of Research

The student is required to pass examinations or their equivalent in two of the following:

Russian
German
French
Computer Programming
Statistics

The student is required to maintain continuous registration. See the section in this *catalog* which refers to Maintaining Matriculation under Required Graduate Study Registration.

Courses of Instruction

Undergraduate level course values are expressed as *course units* according to the following decimal notations: (c 00.25) = $\frac{1}{4}$ course unit; (c 00.50) = $\frac{1}{2}$ course unit; (c 00.75) = $\frac{3}{4}$ course unit; (c 01.00) = 1 course unit; (c 01.50) = $1\frac{1}{2}$ course units; etc.

Graduate level course values are expressed as *semester credit hours* according to the following decimal notations: (s 01.00) = 1 semester hour; (s 02.00) = 2 semester hours; (s 03.00) = 3 semester hours; etc. There are no fractional semester credit hours.

Undergraduate Courses

15.101 Chemistry and Society (c 01.00)

Chemistry and human experience. Structure of the atom and the molecule, bonds and their properties. Organic chemistry and biochemistry. Chemical technology. Poisons. Population, food, and the environment. Energy sources. (Not for Science Majors.)

27.100 Earth Sciences (c 01.00)

Survey of earth features and processes: time, weather, climate, the oceans, minerals, rocks, landforms, glaciers, volcanoes, earthquakes, origin and development of life, geologic history, resources.

27.101 Spaceship Earth (c 01.00)

Consideration of natural limits of life on Earth and of effects which man's activities can have on these limits. Man and the future considered from point of view of pollution and natural resources; population size and life style; natural catastrophes: their prediction and control.

15.120 General Chemistry I (c 01.00)

Atomic theory, electronic configuration, bonding, molecular structure, periodic table, gases. Must be taken concurrently with 15.121. Three hours of lecture and one hour of seminar.

15.121 General Chemistry I Laboratory (c 00.25)

Laboratory work associated with the theoretical material in 15.120. Must be taken concurrently with 15.120. Three hours of laboratory.

15.130 General Chemistry II (c 01.00)

Kinetics and equilibrium. Thermodynamics. Electrochemistry. The elements and their compounds treated systematically. Must be taken concurrently with 15.131. Three hours of lecture and one hour of seminar. *Prerequisite:* 15.120.

15.131 General Chemistry II Laboratory (c 00.25)

Laboratory work associated with the material in 15.130. Qualitative inorganic analysis. Must be taken concurrently with 15.130. Three hours of laboratory.

15.160 Natural Sciences (c 01.00)

Science-content oriented course designed around the Science Curriculum Improvement Study (SCIS), American Association for the Advancement of Science (AAAS), and Conceptually Oriented Program in Elementary Science (COPES) programs for elementary school science. Life and physical sciences. Laboratory work with SCIS materials and kits. Three hours of lecture, one hour of seminar, one hour of laboratory.

15.161 Natural Sciences II (c 01.00)

Continuation of the life and physical sciences material from SCIS, AAAS, and COPES programs. Laboratory work with AAAS and COPES materials and kits as well as from the Elementary Science Study (ESS) program. Teaching this material in a model school. Three hours of lecture, one hour of seminar, one hour of laboratory.

15.310 Organic Chemistry I (c 01.00)

Systematic and theoretical treatment of aliphatic and aromatic hydrocarbons, alcohols, halides, and ethers, ionic and free radical reactions. Stereochemistry. Must be taken concurrently with 15.311. Three hours of lecture and one hour of seminar. *Prerequisite:* 15.130.

15.312 Organic Chemistry I Laboratory (c 00.50)

Laboratory theory and practice in the synthesis, separation, and purification of organic compounds. Introduction to modern separation techniques, including thin layer, liquid, and gas chromatography. The use of ultraviolet, infrared, and nuclear magnetic resonance in separation and identification. Must be taken concurrently with 15.310. Four hours of laboratory. *Prerequisite:* 15.130.

15.320 Organic Chemistry II (c 01.00)

Aliphatic and aromatic acids, nitrogen compounds, carbonyl compounds, and their derivatives. Introduction to polyfunctional compounds. Must be taken concurrently with 15.321. Three hours of lecture and one hour of seminar. *Prerequisite:* 15.310.

15.322 Organic Chemistry II Laboratory (c 00.50)

Synthesis of polyfunctional compounds. Qualitative organic analysis. Introduction to infrared techniques and gas chromatography. Must be taken concurrently with 15.320. Four hours of laboratory. *Prerequisite:* 15.311.

15.350 Quantitative Analysis (c 01.00)

Theory of acid-base, complexation, precipitation, and redox equilibria. Volumetric and gravimetric analyses. Separations. Statistical analysis of data. Spectrophotometry, potentiometry, and coulometry. Three hours of lecture and one hour of seminar. *Prerequisite:* 15.130, 41.111.

15.351 Quantitative Analysis Laboratory (c 00.50)

Practice of gravimetric and volumetric analysis. Use of a spectrophotometer, a pH meter and a coulometer. Analysis of mixtures and commercial products. Project work. Must be taken concurrently with 15.350, six hours of laboratory. *Prerequisite:* 15.130, 41.111.

15.390 Independent Reading Course in Chemistry (c 00.25 through 02.00)

See Independent Reading Courses and Study Projects under General Curriculum Information.

15.410 Physical Chemistry I (c 01.00)

Atomic molecular structure (theoretical and experimental); quantum chemistry. Thermodynamics and spectroscopy. Gases. *Prerequisites:* 15.320, 51.121, 41.222.

15.411 Physical Chemistry I Laboratory (c 00.50)

Mathematical techniques, high vacuum systems, gamma of gases, heat of combustion, thermocouples, refractometry, fluid viscosity, rates of reactions, electrical conductivity, ionization constants, free energy enthalpy and entropy of an electrochemical reaction. Must be taken concurrently with 15.410.

15.420 Physical Chemistry II (c 01.00)

Chemical kinetics. Liquids and solids. Colligative properties and electrolytes. Electrochemistry, adsorption, catalysis, and polymers. *Prerequisite:* 15.410.

15.421 Physical Chemistry II Laboratory (c 00.50)

Atomic spectra, Franck-Hertz, the oscilloscope, the electroscope, Kerr effect, Faraday effect, Hall effect, magnetic susceptibility, dielectric constant, spectrum of Beta-carotene, viscosity of polymers, molecular weight by light scattering, critical surface tension. Must be taken concurrently with 15.420.

15.460 Instrumental Quantitative Analysis (c 01.00)

Theory of optical and electroanalytical methods, including spectrophotometry, fluorimetry, spectrography, flame and atomic spectroscopy, selective ion electrodes, polarography, amperometry. Mass spectrometry. Chromatography. Electronics. Analysis of errors. *Prerequisites:* 15.350, 15.410, 41.222.

15.461 Instrumental Quantitative Analysis Laboratory (c 00.50)

Practice in optical, electroanalytical and other instrumental methods. Project work. Must be taken concurrently with 15.460. *Prerequisite:* 15.410, 15.350 and 15.351.

15.490 Independent Study Project in Chemistry (c 00.25 through 02.00)

See Independent Reading Courses and Study Projects under General Curriculum Information.

15.491 Cooperative Work-Study Program (No credit)

Work and study at cooperating research laboratories for six-month periods. Contact Dr. Doris Hadary for information. *Prerequisite:* permission, Dr. Hadary.

Graduate Courses

All courses listed below carry graduate credit. .500 level courses are open to graduate and qualified undergraduate students. Undergraduate students in .500 level courses receive one course unit for 3 or 4 semester hour credits. Courses at the .600 and .700 levels are open to graduate students only.

15.520 Advanced Organic Chemistry I (s 03.00)

Principles of physical organic chemistry. Bonding and conformational analysis; nucleophilic substitution at carbon; elimination and addition reactions. *Prerequisites:* 15.320 and 15.420.

15.521 Advanced Organic Chemistry II (s 03.00)

Synthetic and mechanistic aspects of the chemistry of carbonyl compounds; acylations, alkylations, and other condensations; oxidation and reduction reactions. Application of orbital symmetry correlations to organic reactions. *Prerequisite:* 15.520.

15.523 Organic Analysis and Synthesis (s 03.00)

Separation and identification of organic mixtures utilizing gas chromatography, IR and NMR spectroscopy; advanced techniques of organic laboratory work including kinetic methods, catalytic reductions, photochemical synthesis, and high pressure work. One hour lecture; eight hours laboratory work per week. *Prerequisite:* 15.320.

15.546 Thermodynamics and Statistical Mechanics (s 03.00)

Mathematical techniques, laws, free energy functions, empirical methods for evaluating reaction feasibility, mixtures, solutions, statistical thermodynamics. *Prerequisites:* 15.420 and 15.572.

15.550 Advanced Inorganic Chemistry (s 03.00)

Electronic structure of atoms. Ionic substances. Chemical bonding. Bond energies. Electronegativity. Covalent radii. Bond and molecular polarity. Molecular symmetry. Coordination compounds. Chemistry of the nontransition elements. The literature of inorganic chemistry. *Prerequisite:* 15.410.

15.551 Topics in Inorganic Chemistry (s 03.00)

Bonding in metals. Magnetochemistry. Dipole moments. Transition metal chemistry including ligand field theory. Jahn Teller effect. Mechanisms of inorganic reactions including the trans

effect. Inorganic materials such as boron hydrides, inclusion compounds, inorganic polymers. *Prerequisite:* 15.550.

15.560 Biochemistry I (s 03.00)

Structure and function of amino acids, proteins, lipids, carbohydrates, and nucleic acids. Enzyme kinetics and bioenergetics. Glycolysis, citric acid cycle, and mitochondrial electron transport and oxidative phosphorylation. Three hours of lecture. *Prerequisite:* 15.320. Undergraduates who elect this course must take both the lecture and the laboratory for one and one-half course credits.

15.561 Biochemistry II (s 03.00)

Fatty acid oxidation, amino acid degradation, and photosynthesis. Carbohydrate, lipid, amino acid, and mononucleotide biosynthesis. Contractile and motile systems and membrane transport. Molecular genetics and morphogenesis. Three hours of lecture. *Prerequisite:* 15.560. Undergraduates who elect this course must take both the lecture and the laboratory for one and one-half course credits.

15.562 Biochemistry I Laboratory (s 02.00)

Experiments related to the material taught in 15.560, which should be taken concurrently. Four hours of laboratory.

15.563 Biochemistry II Laboratory (s 02.00)

Experiments related to the material taught in 15.561 with which I should be taken concurrently. Four hours of laboratory.

15.575 Special Topics in Chemistry (s 03.00)

Selected topics of an intradisciplinary, interdisciplinary, or multi-disciplinary nature. May be repeated for credit if a different topic is covered. *Prerequisite:* permission from Chemistry Department.

15.589 Advanced Topics in Chemistry (s 03.00)

Selected topics. Designed for secondary school science teachers. May be repeated for credit if a different topic is covered. *Prerequisite:* permission of department head.

15.590 Independent Reading Course in Chemistry (s 01.00 through 06.00)

See Independent Reading Courses and Study Projects under General Curriculum Information.

15.690 Independent Study Project in Chemistry (s 01.00 through 06.00)

See Independent Reading Courses and Study Projects under General Curriculum Information.

27.600 Advanced Topics in Earth Sciences (s 03.00)

Selected topic or topics in earth sciences. May be repeated for credit, if a different topic is covered.

15.600 Advanced Physical Chemistry I (s 03.00)

Kinetic molecular theory, Boltzmann statistics, transport phenomena, quantum topics (radiation, tunnelling, superconductivity), partition functions, elementary statistical thermodynamics. *Prerequisite:* 15.401.

15.601 Advanced Physical Chemistry II (s 03.00)

Molecular electrical properties, intermolecular interactions, molecular magnetic properties, chemical kinetics (fast reactions emphasized), class-selected topics. *Prerequisite:* 15.600.

15.608 Special Topics in Physical Chemistry (s 03.00)

May be repeated for credit if a different topic is covered. *Prerequisite:* 15.600.

15.610 Advanced Inorganic Analytical Chemistry (s 03.00)

Modern analytical methods and separations. Nonaqueous solvents. *Prerequisite:* 15.460.

15.618 Special Topics in Analytical Chemistry (s 03.00)

May be repeated for credit if a different topic covered. *Prerequisite:* 15.610.

15.623 Organic Preparations (s 03.00)

Preparative methods of organic chemistry. Emphasis on techniques: vacuum distillation, chromatography, extractions. Preparations from original literature. One hour of lecture, six hours of laboratory. *Prerequisite:* 15.520.

15.628 Special Topics in Organic Chemistry (s 03.00)

May be repeated for credit if a different topic is covered. *Prerequisite:* 15.521.

15.632 High Polymer Chemistry (s 03.00)

Addition and condensation polymerization kinetics, statistics of linear polymers, thermodynamics of solutions, phase equilibria, characterization (osmotic pressure, light scattering, viscometry). *Prerequisites:* 15.320 and 15.420.

15.640 Colloid and Surface Chemistry (s 03.00)

Application of physiochemical principles of colloidal systems. Solid and liquid surfaces, sorption, large molecules in solution, structure of natural and synthetic colloids. *Prerequisite:* 15.401.

15.642 Chemical Kinetics (s 03.00)

Order and molecularity of reactions. Activated complex; theory for elementary reactions. Reactions in solutions and on surfaces. Complex reaction mechanisms. Non-isothermal kinetics. *Prerequisite:* 15.400.

15.643 Quantum Chemistry I (s 03.00)

The eigenvalue problem. Operators and matrices. Introduction to group theory. Elementary wave mechanics. Atomic spectra. Spin and orbital angular momentum coupling techniques. Molecular orbital theory. *Prerequisite:* 15.600.

15.644 Quantum Chemistry II (s 03.00)

Theory of electronic, vibrational and spin resonance spectra of aromatic, organometallic, and diatomic molecules. Quantum mechanical calculations using LCAO-MO-SCF techniques. *Prerequisite:* 15.643.

15.658 Special Topics in Inorganic Chemistry (s 03.00)

May be repeated for credit if a different topic covered. *Prerequisite:* 15.551.

15.668 Special Topics in Biochemistry (s 03.00)

May be repeated for credit if a different topic is covered. *Prerequisite:* 15.561.

15.670 Electrochemistry I (s 03.00)

Faraday's law: conductivity: ionization: transport: ion mobility: activity coefficients: Debye-Huckel theory: electromotive force: galvanic cells. *Prerequisite:* 15.420.

15.671 Electrochemistry II (s 03.00)

Oxidation-reduction reactions: double layer and electrokinetic phenomena; electrode processes; corrosion; electroplating; batteries; fuel cells; biochemical processes. *Prerequisite:* 15.420, 15.670.

15.700 Seminar in Chemistry (s 01.00)

Selected topics. Preparation and presentation of a paper of professional quality. *Prerequisite:* permission of department.

15.797 Master's Thesis Seminar (s 03.00 through 06.00)**15.799 Doctoral Dissertation Seminar (s 12.00 through 20.00)**

Communication

Correspondence Directory: Robert O. Blanchard, *Chairman*

Fields of Study

Broadcast journalism, communication and media studies, print journalism and public

communication, *plus* special interdisciplinary and multi-disciplinary fields in CLEG (communication, law, economics, and government), film, foreign language and communication media, international communication, mass communication and society, and visual communication.

Full-time Faculty

Professor: Robert O. Blanchard, Edward L. Bliss, Jr., H. D. Crawford (Emeritus), J. A. Hendrix, Hamid Mowlana (Joint with School of International Service) Jerome B. Polisky, Lewis W. Wolfson

Associate Professor: Donald T. Moore, Jack E. Orwant

Assistant Professor: Laird Anderson, Bernard Cherin, Theodore Frederickson, Glenn P. Harnden, David Hearne, Marian Pfrommer, Ron Sutton, Joanne S. Yamauchi

Notice

Beginning with the fall semester, 1973, all speech-communication courses were offered by the Department of Communication. Students enrolled in the speech major are being counseled by the speech faculty who are now integrated within the Communication faculty.

Undergraduate Degree

Bachelor of Arts

Admission to the Major

The department counsels freshmen and transfers. For formal admission to the major, a student must have a 2.50 average and be approved by the department.

Composition and Reading Requirement—See Undergraduate Degree Requirements under General Academic Regulations.

Language Requirement—See Undergraduate Degree section under the College of Arts and Sciences.

The student is required to take four core courses, four communication study course equivalents and six courses in one sequence.

Core Courses: All of the following courses are required of majors.

- 17.100 Introduction to Mass Media
- 17.101 Writing for Mass Communication, or equivalent writing experience or course appropriate to the sequence
- 17.201 Introduction to Communication
- 17.202 Public Communication

Communication and Media Studies: One course equivalent from Set I and three courses from Set II. Set II courses are to be selected, in consultation with faculty adviser, and taken after completion of at least one full course equivalent from Set I.

Set I A minimum of four one-quarter special topic modules in Communication and Media Studies (one course equivalent). Special topic modules include study of important, topical aspects of mass communication. See semester bulletin for offerings. Special topic modules in Communication and Media Studies include such topics as:

- Cable television and other new media
- The citizen's need to know
- Media and politics
- Media economic concentration
- Access to the media
- Advertising and consumerism
- Abuses of public relations
- Media and the performing arts
- Humanities and the media
- Media use in public advocacy
- Media use in community organization
- Persuasion and propaganda
- Media for minorities
- Violence and the media

Physics and media technology
 Argumentation
 Body Language
 Media Education and the Schools
 Campaign Ethics and the Media
 Media Monopoly
 The New Journalism
 The New Media
 The Writer as a Specialist

Note: These modules are listed in the semester bulletins as: 17.396 Special Topics in Communication Studies (quarter-course).

Set II A minimum of three full courses

- 17.342 Magazine Journalism
- 17.381 Development of Broadcasting-Film
- 17.500 Communication History
- 17.501 Legal Aspects of Communication
- 17.503 Mass Media and Society
- 17.507 Freedom of Information
- 17.511 Film and Society I: The Documentary Film
- 17.512 Film and Society II: The Non-Fiction Film
- 17.531 International Communication
- 17.550 Persuasive Communication
- 17.558 History of Motion Pictures
- 17.559 History of Motion Pictures II
- 17.560 Political Communication
- 17.565 Organizational Communication
- 17.580 Communication in Small Groups
- 17.582 Advances in Communication Research
- 17.588 Television Programming
- 17.596 Selected Topics in Media Studies (full course)

Sequences: After completion of the four course requirements and at least one full course equivalent (four special topic modules) in Communication and Media Studies, the student, in his junior year, selects one of the following sequences (all of the courses or course options listed, including internships, are required of all majors):

PRINT JOURNALISM

- 17.320 Reporting I
- 17.322 Editorial Policies and Methods I
- 17.524 Reporting II
- 17.520 Editorial Policies and Methods II or 17.532 Publication Layout and Design
- 17.325 Feature Writing, independent reporting project, 17.521 Editorial Interpretation, or 17.343 Photography
- 17.391 Junior-Senior Internship or 17.491 Honors Internship

BROADCAST JOURNALISM

- 17.320 Reporting I
- 17.333 Fundamentals of Radio-TV-Film
- 17.385 Broadcast Journalism I
- 17.528 Broadcast Journalism II
- 17.383 Radio Production and Programming, 17.583 Film Production or 17.584 Television Production and Direction I
- 17.391 Junior-Senior Internship or 17.491 Honors Internship

PUBLIC COMMUNICATION

- 17.550 Persuasive Communication
- 17.560 Political Communication
- 17.565 Organizational Communication
- 17.580 Communication in Small Groups
- 17.582 Advances in Communication Research
- 17.391 Junior-Senior Internship, or 17.491 Honors Internship

Related Courses

The student is directed toward a broad arts and sciences background, through the student's 18 course electives. The student may do this by means of a double major.

Interdisciplinary Communication Degrees

Interdisciplinary programs involve close cooperation between student and major advisor. The following description of program possibilities and procedures will assist you and your advisor in creating your own individual interdisciplinary major. Overall information and initial advising are available from the Coordinator of Interdisciplinary Studies, Department of Communication.

FILM AND BROADCAST TELEVISION

Undergraduate students are able to design a quality, custom-tailored interdisciplinary major in either film or broadcast television. The student may approach the study of these media within a context of communication, literature, theatre, art, or the social sciences. A student may study film or broadcast television as a primary field of interest or may take courses in film or broadcast television to complement another field or interest in which he or she is majoring. A 3.00 grade point average (on a four point scale) is required to be considered for either program.

In building an interdisciplinary major in either film or broadcast television, the student should keep in mind four areas of competency and skill: *technology, analysis, writing, and production*. Most programs will be built using the courses listed below these areas as key components.

Film

TECHNOLOGY: the study of the technological foundation of sound-image media

51.101 Sound, Light, and the Arts

ANALYSIS: the study of film from various critical points of view including historical, literary, structural, sociological, and aesthetic

- | | |
|---|--------------------------------------|
| 17.100 Introduction to Mass Media | 17.588 History of Motion Pictures I |
| 17.396 Selected Topics | 17.559 History of Motion Pictures II |
| 17.511 Film and Society I: The Documentary Film | |
| 17.512 Film and Society II: The Non-Fiction Film | |
| 23.310 Studies in Literary Form: Critical Approach to the Cinema | |
| 23.310 Studies in Literary Form: Independent Filmmakers | |
| 23.320 Studies of Literature in Historical Context: Italian Cinema (other national cinemas) | |

WRITING: the development of writing skills appropriate to the medium

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|---|-----------------------------------|
| 17.101 Writing for Mass Communications | 17.382 Writing for Film-Broadcast |
| 23.340 Creative Writing (script-writing emphasis) | |

PRODUCTION: the development of individual and organizational skills necessary for, and including, actual creation of film productions

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|--|---|
| 17.100 Introduction to Mass Media | 17.555 Film Production and Direction II |
| 17.554 Film Production and Direction I | |

Broadcast Television

TECHNOLOGY: the study of the technological foundations of sound image media

51.101 Sound, Light, and the Arts

ANALYSIS: the study of television from various points of view, historical, developmental, structural, sociological, and content analysis

- | | |
|---|--------------------------------------|
| 17.100 Introduction to Mass Media | 17.588 Television Programming |
| 17.396 Selected Topics | 17.558 History of Motion Pictures I |
| 17.381 Development of Broadcasting-Film | 17.559 History of Motion Pictures II |

17.511 Film and Society I: The Documentary Film

17.512 Film and Society II: The Non-Fiction Film

WRITING: the development of writing skills appropriate to the medium

17.101 Introduction to Mass Media 23.340 Creative Writing (script emphasis)

17.382 Writing for Broadcast-Film

PRODUCTION: the development of individual and organizational skills necessary for, and including actual creation of television productions

17.100 Introduction to Mass Media

17.584 Television Production and Direction I

17.333 Fundamentals of Television

17.585 Television Production and Direction II

Anyone interested in the film and broadcast television programs should also consider courses dealing with subjects allied closely with film/television. Courses of an introductory nature in art, anthropology, sociology, history, philosophy, religion, economics, government, international relations, and business might be considered. Intermediate courses in design, theatre, music, and photography teach concepts and skills which are fundamental to various specialized forms of the film/television medium, and to which the film/television medium itself is an important integral or complimentary facet when one of these fields is pursued as a major interest. Professors Sutton, Harnden, and Cherin are the key advisors in this program.

LAW, PUBLIC POLICY, AND SOCIETY MAJOR WITH EMPHASIS IN COMMUNICATION, LEGAL INSTITUTIONS, ECONOMICS, AND GOVERNMENT (CLEG)

The Law, Public Policy, and Society major with an emphasis in Communication, Legal Institutions, Economics, and Government (CLEG) provides students with the breadth of background necessary to participate effectively in decision making for public affairs. Drawing on the specialized methods and perspectives of each of these fields, the CLEG emphasis within the Law, Public Policy, and Society major stresses the practical training necessary to deal with social problems and public issues.

Communication—The communication courses include the study of communication process as it occurs in the dyadic (one-to-one), small group, public and organizational contexts. The emphasis in these courses is on the development of verbal and analytical skills used in persuasive, political and interpersonal forms of communication. Additionally, the student may become acquainted with the frontiers of knowledge in the discipline of communication through a study of the most recent advances in communication research.

Legal Institutions—The courses in legal institutions focus both on legal concepts and on empirical analysis. They evaluate legal institutions as social, economic and political systems and as they are shaped by social, economic and political forces outside of them.

Economics—The courses in economics are designed to acquaint students with the traditional analytical tools used by economists to try to resolve social problems. Particular attention will be focused on the problems of unemployment, inflation, consequences of economic growth and poverty and its causes. Students will also be introduced to the political economy approach to social problems. This approach emphasizes the interaction of political, social, and economic factors and focuses on such tools of analysis as historical materialism, technological change, social classes, wealth and power. The courses are designed to help students understand the functioning of the American economy as a system—so that whether the student wishes to reinforce it or change it—he or she will have a fundamental knowledge of how it works.

Government—The government courses emphasize the political nature and process of decision making in the American political system at the national, state and local levels. The courses are designed to contribute to an understanding of government and public affairs as an aspect of a broadly cultural education. They prepare the student for an enlightened role in American national and community affairs and for entrance upon a career in public affairs at a junior professional level.

Requirements for the Major: Bachelor of Arts

CORE COURSES all students must complete the following three course sequences for each CLEG area

COMMUNICATION

17.201 Introduction to Communication

two of the following:

17.202 Public Communication

17.560 Political Communication

17.550 Persuasive Communication

LEGAL INSTITUTIONS

- 73.101 Introduction to Administration of Justice I
 75.396 Selected Topics: Reasoning in the Legal Process
 one of the following:
 73.201 Administration of Justice and the Community
 73.220 Criminal Justice and the Constitution
 73.453 Civil Disorder 73.502 The Concept of Law

ECONOMICS

- 19.100 Introduction to Economics
 one of the following:
 19.300 Price Theory and Its History 19.305 Introduction to Quantitative Economics
 19.301 Income Theory and Its History
 19.309 Public Economics:
 one of the following:
 19.304 Alternative Economic Theories and Institutions
 19.312 Political Economy

GOVERNMENT

- two of the following:
 53.101 Introduction to Political Theory 53.150 American Government and Politics
 53.102 Introduction to Comparative Politics
 one of the following:
 53.323 Law and the Political System 53.341 Civil Rights and Liberties

RELATED COURSES a minimum of two (2) are required

An additional two courses must be chosen from the above list or from the listing of approved CLEG courses. (Only those courses listed above which are not completed to satisfy the Core Requirement may be counted.) Both courses must be at the .300 level or above.

PROJECT COURSES the following two (2) are required

- 75.492 CLEG Senior Seminar 75.491 CLEG Senior Internship

Requirements for the Major: Bachelor of Science

The Bachelor of Science degree in CLEG will be granted if the student completes more than sixteen approved courses for the CLEG major. The Core Requirement for the BA in CLEG must be satisfied. Fifty percent (50%) of the courses completed for the major must be at the .300 level or above. A minimum of four courses must be selected from each of the four CLEG areas. Both Project Courses must be taken.

Combined Degree Programs

The combined degrees require that the student first meet all requirements for either the BA or BS in CLEG. Additionally, the student must meet all requirements for graduate admission in one of the CLEG areas. Upon admission to graduate standing in one of the CLEG departments or schools, the student will then be assigned an advisor from that teaching unit and must meet the requirements for its master's degree. This program is designed specifically for junior transfer students and may be completed in three years.

Program Director

Dr. Jerry Hendrix, *Department of Communication.*

Approved Major Courses for the CLEG Major**COMMUNICATION COURSES**

- | | | | |
|----------|-------------------------------|----------|-------------------------------|
| *17.201 | Introduction to Communication | **17.560 | Political Communication |
| **17.202 | Public Communication | 17.580 | Communication in Small Groups |
| **17.550 | Persuasive Communication | | |

LEGAL INSTITUTION COURSES

- | | | | |
|----------|--|----------|--|
| *73.101 | Introduction to the Administration of Justice I | 73.455 | Etiology of Crime |
| 73.102 | Introduction to the Administration of Justice II | 73.463 | Free Press and the Administration of Justice |
| **73.201 | Administration of Justice and the Community | **73.502 | The Concept of Law |
| **73.220 | Criminal Justice and the Constitution | 73.510 | The Police and the Political System |
| 73.431 | The Prison Community | 73.511 | Innovation in Law Enforcement |
| | | 73.552 | Political Crime |

- **73.453** Civil Disorder
73.454 Violence in America

- *75.396** Selected Topics: Reasoning in the Legal Process

ECONOMICS COURSES

- *19.100** Introduction to Economics
****19.300** Price Theory and Its History
****19.301** Income Theory and Its History
****19.304** Alternative Economic Theories and Institutions
****19.305** Introduction to Quantitative Economics
****19.309** Public Economics

- 19.310 Introduction to Econometrics, or 69.202 Basic Statistics
****19.312** Political Economy
19.314 Junior/Senior Seminar
19.307 Political Economy of Economic Development
19.311 International Economics
19.315 Urban Political Economy

GOVERNMENT COURSES

- **53.101** Introduction to Political Theory
****53.102** Introduction to Comparative Politics
****53.150** American Government and Politics
53.320 Political Behavior
53.321 Congress and the Presidency
53.322 Bureaucracy and Administration
****53.323** Law and the Political System

- 53.324 Metropolitan Politics
53.326 State Government and Politics
53.327 American Constitutional Development
53.340 Government and Social Policy
53.560 Science, Technology and Government: Interaction and Issues
****53.341** Civil Rights and Liberties

NOTE: A variety of seminars on special topics at the .400 and .500 level will be available to the CLEG major.

* Core Courses.

** Optional Core Course (May serve as related course only if not taken to satisfy the core requirement.)

MASS COMMUNICATION AND SOCIETY

The following program offered jointly with the Department of Sociology is available to undergraduate students:

Scholarship (9 courses)

Required courses:

1. 17.100 Introduction to Mass Media or 17.201 Introduction to Communication
2. 65.200 Introduction to Sociology
3. One of the following
65.345 American Society 65.346 Comparative Social Systems
4. One of the following:
65.441 Introduction to Social Stratification 65.445 Contemporary Communities
65.442 Political Sociology
5. One of the following:
65.360 Introduction to Social Change ****65.593** Collective Behavior
6. One of the following:
****65.592** Social Aspects of Mass Communication
****65.594** Public Opinion
7. One other Sociology Course

8-9. Two Communication and Media Studies courses

****Students may take .500 level courses only after they have completed three courses at the .300 or .400 level.**

Skill Development (7 courses)

1. 17.101 Writing for Mass Communication, or 17.382 Writing for Broadcast-Film
2. 65.420 Introduction to Social Research Methods I
3. 65.421 Introduction to Social Research Methods II
- 4-7. One of the following communication skill concentrations: print or broadcast journalism, or production courses in broadcasting and film interdisciplinary programs.

Program Advisors: Dr. Jack Orwant (Communication)
Dr. Muriel Cantor (Sociology)

VISUAL COMMUNICATION

Courses of study vary from student to student as his area of concentration is determined and as a means of providing the student with entry level skills in his chosen field(s). Recommended communication courses include Photography, and Advanced Photography. In the Department of Art, recommended courses include Design Techniques I and II or Fundamentals

of Design are recommended. The third segment of the student's work is often in another department or advanced work in either primary or secondary areas. The unit also must include at least one independent study project under the primary advisor and one internship. Consult the visual communication advisor.

Tools

Typing ability is required of all majors.

Majors are expected to gain practical communication experience in the nation's capital through Department of Communication on or off-campus internships, work-study, or summer employment. After approval of advisor, see department chairman for placement.

Electives

To complete a minimum of 32 courses.

FOREIGN LANGUAGE AND COMMUNICATION MEDIA

Combined B.A. and M.A. in Foreign Language and Communication Media (offered jointly with the Department of Language and Foreign Studies).

This three year program combines Junior and Senior years culminating in a B.A. degree, leading to an M.A. Admission to the undergraduate portion of the program, however, does not guarantee admission to the graduate degree status. The latter is a separate step subject to graduate admission requirements.

Admission to the Major

Undergraduate students are admitted directly to either the Department of Communication or the Department of Language and Foreign Studies. To be formally recognized as joint majors working toward the M.A., they must achieve senior standing and be accepted by *both* departments for the graduate degree portion of the program.

Language Requirement

Before the student can take any of the required courses taught in appropriate foreign language he must have completed two college years of that language or its equivalent.

CHOICE OF LANGUAGES

French, German, Russian or Spanish

CHOICE OF MEDIA

Print Journalism, Broadcast Production, or Broadcast Journalism

UNDERGRADUATE COURSE WORK

(1) All students must take:

17.101 Writing for Mass Communication

(2) Two of the following:

37.199 International Vocabulary

37.200 Language and Mind

37.300 Introduction to Language

(3) Four courses in one of the following Communication fields:

Print Journalism

17.320 Reporting I

17.325 Feature Article Writing or 17.524 Reporting II

17.322 Editorial Policies and Methods I

17.343 Photography or 17.532 Publication Layout and Design or

17.520 Editorial Policies and Methods II

Broadcast Production

17.333 Fundamentals of Radio-TV-Film

17.383 Radio Production and Programming or

17.584 Television Production and Direction I

17.585 Television Production and Direction II or

17.583 Film Production and Direction

Broadcast Journalism

17.320 Reporting I

17.333 Fundamentals of Radio-TV-Film

17.385 Broadcast Journalism I

17.528 Broadcast Journalism II

- (4) Five courses in the appropriate language
 Conversation and Composition
 Civilization I and II
 "Topics" or "Colloquia"

GRADUATE REQUIREMENTS

All students must take:

- 17.503 Mass Media and Society
- 17.596 Special Topics
- 17.531 International Communication Systems

Four approved "Colloquia"

Research options:

- 17.760 Methodology of Communication Research
- 37.700 Visiting Scholar Seminar
or a Thesis

A 500-level Internship in Foreign Communication

A 500-700-level "Elective"

Written Comprehensive Examinations

One examination in General Communication (in English)

One examination in appropriate "Foreign Culture" (in foreign language)

Graduate Degrees

Candidates for graduate degrees in all departments are subject to University Graduate Degree Requirements. Requirements given below list the minimal requirements from a departmental point of view. University requirements that exceed these requirements are nonetheless binding upon the student.

Master of Arts in Communication: Journalism and Public Affairs

Admission

A minimum undergraduate grade point average of 2.5 (for the last two years of study) and 2.57 in the major is required for admission (on a four point scale). Previous professional/campus experience in communication is considered useful, though it is not required. However, all applicants are required to show evidence of professional commitment and career direction related to one of the graduate disciplines.

Admission is for full-time students and for Fall semester only. The student is expected to complete his or her program (33 semester hours) within a 12 month period.

Note to All Applicants: Address all initial inquiries to the Chairman, Department of Communication.

Send completed University application forms, transcript, and two references to the Office of Admissions, Financial Aid, and Veterans Affairs, Programs and Services, The American University.

In addition, the department requires completion of a separate form to be sent directly to the Chairman, Department of Communication. You will find attached to this form a more detailed explanation of the purposes and content of the program in journalism and public affairs.

If you have further inquiries about your application, they should be addressed to both the Office of Admissions, Financial Aid, and Veterans Affairs, Programs and Services, and the Department of Communication. An interview is not required, but may be requested by the department.

Requirements

The program requires a total of 33 semester hours to include courses in media/policy studies (15 hours), the professional discipline (12-15 hours), and graduate level courses (xx.500 level or above) in an approved related area of study (3-6 hours). A thesis is not required.

MEDIA/POLICY STUDIES (15 hours)

Core Graduate Seminars (required)

- 17.710 Seminar in Public Affairs
- 17.760 Methodology of Communication Research

Additional Courses (choose three of the following)

- 17.500 Communication History
- 17.501 Legal Aspects of Communication
- 17.503 Mass Media and Society
- 17.507 Freedom of Information
- 17.560 Political Communication
- 17.596 Selected Topics: The Media and Government
- 17.596 Selected Topics: Congress and the News Media
- 17.596 Selected Topics
- 17.690 Independent Study Project in Communication

PROFESSIONAL JOURNALISM DISCIPLINE (12–15 hours)

Print Journalism

Core Seminar/Field Courses (required)

- 17.720 Seminar in Journalism
- 17.724 Reporting of Public Affairs
- 17.536 Government News Reporting
- 17.520 Editorial Policies and Methods II

Additional Course (choose one of the following)

- 17.521 Editorial Interpretation
- 17.532 Publication Layout and Design
- 17.691 Independent Reporting Project/Internship

Broadcast Journalism

Core Seminar/Field Courses (required)

- 17.720 Seminar in Broadcast Journalism
- 17.724 Reporting in Public Affairs
- 17.528 Broadcast Journalism II
- 17.583 Film Production and Direction

Additional Course (choose one of the following)

- 17.584 Television Production and Direction
- 17.782 Broadcasting in the Public Interest
- 17.691 Independent Documentary Project/Internship

RELATED AREA OF STUDY (3–6 hours)

The student is expected to choose at least one graduate level course (xx.500 level or above) in an area related to communication that has been approved by the department. Study may be in such fields as politics and government, international affairs, economics, urban affairs, or environmental studies. Other areas of the social sciences or humanities may also be considered, if approved.

Students who wish to take six hours in these areas (or, in some cases, nine hours) will be allowed to substitute the added courses for certain communication course requirements as approved by the department.

Academic Standing

A grade of B (3.0 on a four point scale) or better must be maintained during all graduate work counting toward the degree. The student is required to maintain continuous full-time registration. A grade of B or better is required in 17.710 and in 17.760 (see also appropriate information on Maintaining Matriculation under Graduate Degree Requirements in this publication).

Comprehensive Examination

One comprehensive examination is required.

Master of Arts in Communication: Media Studies

In view of the important social, political, and intercultural effects of mass communication, both internationally and domestically, this program emphasizes scholarly appraisal of the media. A thesis is required and is viewed as the focus of the program. Students are expected to work closely with the advisor in developing a course program that will complement and support their thesis work.

Course Requirements

Thirty-three hours of approved graduate work including 17.760 (Methodology of Communication Research, three semester hours), 17.797 (Master's Thesis Seminar, six semester hours), and a course in advanced research methods.

A limited number of courses in professional media skills may be available to those enrolled in this program. These courses are not required, however.

Program advisor: Dr. Jack E. Orwant

Master of Arts in Communication: Public Communication

The Master of Arts degree program in public communication is designed to prepare the student for careers in public information, community relations, teaching, personnel management, advertising, and communication consulting in business or governmental organizations. Graduate level training in public communication includes the study of the communication process as it occurs in the dyadic (one-to-one), small group, public, and organizational contexts. The emphasis in this program is on the development of verbal and analytical skills used in persuasive, political, and interpersonal forms of communication. Additionally, the student becomes acquainted with the frontiers of knowledge in the discipline of communication through a study of the most recent advances in communication research.

Issues and problems which confront the specialist in communication do not confine themselves to the boundaries of learning in the field of communication. Problems in communication quite often include political, psychological, historical, sociological, anthropological, economic, linguistic, literary, theatrical, philosophical, or educational dimensions. Thus, according to his interests and in consultation with the program advisor, the interdisciplinary graduate student in public communication combines his courses in communication with those of at least one other department in the University.

Requirements

- (1) Thirty semester hours of courses at the graduate level (xx.500 or above) are required.
- (2) Comprehensive examination(s): the title and description of each of the comprehensive examinations will be worked out in consultation with the public communication graduate program advisor.
- (3) Research requirements (six semester hours): the student should state whether he plans to write a thesis or choose an option of six semester hours of approved research courses at the xx.600 or xx.700 level. Research requirements must be completed with a grade of B or better.

Required Courses in Public Communication

- 17.550 Persuasive Communication (3)
- 17.560 Political Communication (3)
- 17.565 Organizational Communication (3)
- 17.580 Communication in Small Groups (3)
- 17.582 Advances in Communication Research (3)
- 17.690 Independent Study Project in Communication (1-6)

Internship and Independent Study

- 17.691 Internship in Public Communication (3)
- 17.590 Independent Reading Course in Communication (1-6)
- 17.690 Independent Study Project in Communication (1-6)

The student will select courses to meet remaining degree requirements in consultation with the public communication graduate program advisor, Dr. Jerry Hendrix.

Interdisciplinary Master of Arts

Applicants accepted for graduate study in film choose a program which leads to an interdisciplinary Master of Arts degree in film.

This interdisciplinary program is not a fixed curriculum. Courses are selected from the offerings of a number of departments within the University, according to the student's interests. Courses directly related to film which are presently available within the College of Arts and Sciences for graduate credit are:

COMMUNICATION

- 17.544 Film Production and Direction I
- 17.555 Film Production and Direction II

- 17.511 Film and Society I: The Documentary Film
- 17.512 Film and Society II: The Non-Fiction Film
- 17.558 History of the Motion Picture I
- 17.559 History of the Motion Picture II
- 17.595 Introduction to the Moving Image
- 17.690 Independent Study Project in Communication

LITERATURE

- 23.310 Studies in Literary Form: Critical Approach to Cinema
- 23.310 Studies in Literary Form: Independent Filmmakers
- 23.396 Selected Topics: Film and Literature
- 23.320 Studies of Literature in Historical Context: Italian Cinema (also other national cinema)

A student in the interdisciplinary graduate film program selects from among these film study and film production courses and then augments this selection with related courses, usually in:

- | | |
|------------|------------------|
| acting | graphic arts |
| directing | literature |
| music | creative writing |
| television | social sciences |

—again, depending upon the trend of the student's interests. A program of courses is designed to total 24 graduate semester hours with nine additional hours devoted to a Master's Thesis Project.

Masters of Arts in International Communication

This degree is administered jointly with the School of International Service and the Department of Communication of the College of Arts and Sciences. (See School of International Service.)

Courses of Instruction

Undergraduate level course values are expressed as *course units* according to the following decimal notations: (c 00.25) = ¼ course unit; (c 00.50) = ½ course unit; (c 00.75) = ¾ course unit; (c 01.00) = 1 course unit; (c 01.50) = 1½ course units; etc.

Graduate level course values are expressed as *semester credit hours* according to the following decimal notations: (s 01.00) = 1 semester hour; (s 02.00) = 2 semester hours; (s 03.00) = 3 semester hours; etc. There are no fractional semester credit hours.

Undergraduate Courses

17.100 Introduction to Mass Media (c 01.00)

An action as well as conceptual study of the mass media. History, social effects, economic and legal restraints, and current practices. A project approach in working sections. Required of all department majors.

17.101 Writing for Mass Communication (c 01.00)

Basic written techniques of mass communication. Intensive practice in forms of writing for mass media. Three-hour weekly laboratory arranged. Required of all department majors. *Prerequisite:* 17.100.

17.110 Public Speaking (c 01.00)

Principles of public speaking, sound standards for evaluating speeches, and practice in the preparation and presentation of several types of public address.

17.201 Introduction to Communication (c 01.00)

Current human communication theory from disciplinary points of view; how communication affects individuals in their personal and social lives. *Prerequisite:* permission of instructor.

17.202 Public Communication (c 01.00)

Intensive study of principles of public communication. Attention to the individual as public communicator, the public communication of organizations, and the intercultural context of public communication.

17.320 Reporting I (c 01.00)

Fundamentals of news gathering, news writing and news judgment for all the media; study of news sources, research and interview techniques; supervised writing. *Prerequisite:* 17.101.

17.322 Editorial Policies and Methods I (c 01.00)

Instruction and practice in editing for media. Copy editing and editorial judgment. Use of wire copy. *Prerequisite:* 17.320.

17.325 Feature Article Writing (c 01.00)

Study of various types of feature articles for newspapers, syndicates, magazines, and specialized publications; practice in research, interviewing, writing; revision and the marketing of articles. *Prerequisite:* 17.322.

17.333 Fundamentals of Television (c 01.00)

Basic principles and projects in television in the TV studio of the broadcast center. Students serve as crew for television production and direction classes. Each student writes, directs, and produces an original five minute production. *Prerequisites:* 17.100 and 17.101.

17.342 Magazine Journalism (c 01.00)

Survey of contemporary periodicals, their backgrounds, trends, functions, staff organization, free lance sources, editorial policies and practices. *Prerequisite:* 17.100.

17.343 Photography (c 01.00)

Photographic fundamentals through the intensive use of the camera in assignment situations and laboratory work in film processing and photographic printing of those assignments. Three-hour weekly laboratory arranged. *Prerequisite:* communication and art majors or department permission.

17.381 Development of Broadcasting-Film (c 01.00)

A comprehensive study of trends and historical precedents in the broadcast and film industries of the United States with emphasis on control, financial, governmental, program, and technical factors. *Prerequisite:* permission of the department.

17.382 Writing for Broadcasting Film (c 01.00)

Techniques of script writing for broadcast. Students write and criticize assignments.

17.383 Radio Production and Programming (c 01.00)

Radio programs and their determinants. Students produce, direct and criticize assignments.

17.384 TV Studio Operations (c 01.00)

Principles and practice in the operation of television studio equipment. Laboratory. *Prerequisite:* 17.381.

17.385 Broadcast Journalism I (c 01.00)

Competence in writing and editing news for broadcast. Actual broadcast of news programs over WAMU-FM (public radio). First-hand reporting with tape recorders. Emphasis on responsibility in news preparation. *Prerequisite:* permission of instructor.

17.390 Independent Reading Course in Communication (c 00.25 through 02.00)

See Independent Reading Courses and Study Projects under General Curriculum Information.

17.391 Junior-Senior Internship (c 01.00 through 02.00)

Professional communication work in an organization which provides experience not otherwise available in the curriculum. Open to junior and senior undergraduate students recommended by their advisors with approval of the department chairman.

17.490 Independent Study Project in Communication (c 00.25 through 02.00)

See Independent Reading Courses and Study Projects under General Curriculum Information.

17.491 Undergraduate Honors Internship (c 01.00 through 02.00)

Professional communication work in off-campus organization appropriate to the student's department sequence, which provides the student with experience not otherwise available in the curriculum. Open to undergraduate majors who have completed with distinction most or all of their sequence requirements. Recommendation of advisor and approval of department chairman.

Graduate Courses

All courses listed below carry graduate credit. .500 level courses are open to graduate and qualified undergraduate students. Undergraduate students in .500 level courses receive one course unit for 3 or 4 semester hour credits. Courses at the .600 and .700 levels are open to graduate students only.

17.500 Communication History (s 03.00)

Development of newspapers, magazines, radio, television, and motion pictures, and their influence on contemporary ethics and practices.

17.501 Legal Aspects of Communication (s 03.00)

Current legal problems; theory of controls in journalism, visual communication, television and radio. Analysis of libel suits, copyrights, infringement. No previous knowledge of law required. *Prerequisite:* Permission of department.

17.503 Mass Media and Society (s 03.00)

Role of newspapers, magazines, radio, television and motion pictures, and their impact on society. *Prerequisite:* permission of instructor.

17.507 Freedom of Information (s 03.00)

Investigation of access and barriers to information at local, state, national and international levels. Rights and responsibilities of communication media, government agencies, and the public.

17.511 Film and Society I: The Documentary Film (s 03.00)

Historical development of the documentary tradition in film including critical analysis and evaluation of its use in modern society.

17.512 Film and Society II: The Non-Fiction Film (s 03.00)

Survey and analysis of the independent, industrial, educational, experimental, and minority group short film. Special focus will be on its development and its role and use in society today in communications and education.

17.520 Editorial Policies and Methods II (s 03.00)

Advanced training to develop editorial judgment and skills in processing material for publication; study of problems and practices in making assignments, handling departments, and dealing with wire copy; 4-hour laboratory arranged. *Prerequisite:* 17.322.

17.521 Editorial Interpretation (s 03.00)

Editorial page policies and practices; supervised writing of various types of editorials on current subjects; analysis of editorial columns and interpretative reviews. *Prerequisite:* permission of instructor.

17.523 Advanced Photography (s 03.00)

Advanced work in photography utilizing the photograph as a means of communication through media presentation. Includes extensive assignment situations throughout the Washington, D.C. area. Spring semester includes photographic work in London, England. *Prerequisites:* 17.343 and permission of instructor.

17.524 Reporting II (s 03.00)

Advanced training in writing news for publication, with emphasis on specialized areas of coverage; student assignments in selected fields for one day a week. *Prerequisite:* permission of instructor.

17.526 Advanced Feature Article Writing (s 03.00)

Principles and methods of writing feature stories for publication. Individual attention to problems. Students submit articles for publication. *Prerequisite:* 17.325.

17.528 Broadcast Journalism II (s 03.00)

An advanced course in radio-television news with continued emphasis on editorial production over WAMU-FM (public radio). Study of the documentary form. *Prerequisite:* 17.385 and permission of instructor.

17.531 International Communication Systems (s 03.00)

Communication of news and opinion among nations and under varying types of social, political, and economic systems. Uses of mass media in national development; chief patterns of mass communication throughout the world.

17.532 Publication Layout and Design (s 03.00)

Layout, typography, design and printing in the planning and production of newspapers, magazines, books, brochures, and folders. *Prerequisite:* permission of department.

17.536 Government News Reporting (s 03.00)

Field work coverage of federal, state and local government, Washington used as laboratory. Intensive work on in-depth reporting, writing and editing. One full day a week. *Prerequisites:* 17.320 and permission of department.

17.546 Audio-Visual Communication (s 03.00)

Problems of communicating through modern audio-visual media. Emphasis upon communication studies and findings in perception, learning, attention and related areas. Students prepare materials and gain experience with audio-visual devices and systems.

17.550 Persuasive Communication (s 03.00)

Contemporary concepts, theories, research findings, and case studies representative of current trends in persuasive communication.

17.554 Film Production and Direction I (s 03.00)

An intensive introduction to all aspects of film production and direction, including writing, cinematography, editing, and criticism of motion pictures. *Prerequisites:* either 17.333 or 17.343 or permission of instructor.

17.555 Film Production and Direction II (s 03.00)

Advanced level projects in film production and direction. *Prerequisites:* 17.554 or permission of instructor.

17.558 History of Motion Pictures I (s 03.00)

Origins and development of the motion picture from the nineteenth century to 1940. An international survey from an American viewpoint will be stressed. Films will be viewed, discussed, and criticized. Laboratory fee.

17.559 History of Motion Pictures II (s 03.00)

History and development of the motion picture from 1940 to the present. An international survey from an American point of view.

17.560 Political Communication (s 03.00)

Critical analysis and discussion of significant contemporary political communication. Practical experience in the preparation of various forms of political communication.

17.561 Advanced Writing for Broadcasting Film (s 03.00)

Writing and criticism of documentary, dramatic and other types of complex programs for television and film. *Prerequisite:* permission of department.

17.565 Organizational Communication (s 03.00)

Principles of communication theory within organizational context. Practical application of communication skills appropriate to various organizational settings.

17.580 Communication in Small Groups (s 03.00)

Contemporary theories and research findings of interpersonal and small group communication; problems of decision making in small groups.

17.581 Broadcasting in Education (s 03.00)

Effects which broadcasting and related media have on an American education system whose students exist in media-saturated environment. Also include consideration of roles, organization, and objectives of formal instructional television; and of recently-developed Public Broadcasting System.

17.582 Advances in Communication Research (s 03.00)

Research problems in experimental methods applied to topics in communication. Systematization of observation, uses of sampling, measurement, and experimental design are considered.

17.584 Television Production and Direction I (s 03.00)

Student projects in television directing, producing, and serving as talent for other students productions. Students will review the projects of other students. *Prerequisite:* 17.333.

17.585 Television Production and Direction II (s 03.00)

Advanced training in longer, more sophisticated television programs. *Prerequisites:* 17.584 and permission of instructor.

17.588 Television Programming (s 03.00)

Principles of planning radio and television programs and program schedules. *Prerequisite:* 17.381.

17.589 Seminar in Broadcasting and Film (s 03.00)

In depth study of certain areas and problems in broadcasting and film not covered in the regular sequence of courses. Topics will vary from semester to semester. May be repeated for credit when topics vary. *Prerequisite:* permission of department.

17.590 Independent Reading Course in Communication (s 01.00 through 06.00)

See Independent Reading Courses and Study Projects under General Curriculum Information.

17.690 Independent Study Project in Communication (s 01.00 through 06.00)

See Independent Reading Courses and Study Projects under General Curriculum Information.

17.691 Graduate Internship (s 01.00 through 03.00)

Professional communication work in an off-campus organization, appropriate to the student's department sequence, which provides the student with experience not otherwise available in the curriculum. Open to undergraduate majors who have completed with distinction most or all of their sequence requirements. Recommendation of advisor and approval of department chairman.

17.710 Seminar in Public Affairs (s 03.00)

Intensive study of current issues and making of public policy in Washington; with special emphasis on the role of the media. *Prerequisite:* permission of instructor.

17.720 Seminar in Journalism (s 03.00)

The direction of the media and the problems they face. Emphasis on individual research projects. *Prerequisite:* permission of instructor.

17.721 Seminar in Broadcast Journalism (s 03.00)

Problems, policies, and practices of the broadcast media. Emphasis on broadcast production, individual research.

17.724 Reporting of Public Affairs (s 03.00)

Advanced training in writing news for publication with emphasis on current major issues. One full day a week. Conducted with Seminar in Public Affairs (17.710). *Prerequisite:* permission of instructor.

17.760 Methodology of Communication Research (s 03.00)

Introduction to the logic of scientific inquiry and to the strategy and content of research in mass communication. Training in quantitative techniques for professional communicators.
Prerequisite: permission of instructor.

17.782 Broadcasting in the Public Interest (s 03.00)

Responsibilities of the broadcaster in terms of "public interest, convenience, and necessity," comparison of U.S. and foreign programming.

17.797 Master's Thesis Seminar (s 03.00 through 06.00)

For those students writing a thesis in communication. Do *not* register without formal approval of thesis topic by department faculty.

Economics

Correspondence Directory: Nancy S. Barrett, *Chairman*

Fields of Study

Price and income theory, contemporary economic theory, history of economic thought, economic history of Europe, economic history of the United States, history of economic development, theory of political economy, economic growth and development, economic development policy (not open to students in Dept. of Economics), labor economics, international economics, international economic policy (not open to students in Dept. of Economics), comparative economic systems and Soviet-type economics, monetary economics, public finance and fiscal policy, mathematical economics, econometrics, quantitative method in economics (open only to M.A. candidates), urban economics.

Full-time Faculty

Professor: Nancy S. Barrett, W. Donald Bowles, Ernst Correll (Emeritus), Gary Fromm, Warren S. Hunsberger, Fritz Karl Mann (Emeritus), E. J. Mishan (Joint with London School of Economics), Cynthia Taft Morris, Frank M. Tamagna, Vito Tanzi, Albert Waterston, James H. Weaver, Charles K. Wilber

Associate Professor: Raford Boddy, George Iden, Larry Sawers, Howard Wachtel

Assistant Professor: David Kotz, Jerolyn Lyle, John Lyons, Ronald Müller, Jon Wiseman

Visiting Professor: Branko Horvat, Bo Söndersten

Undergraduate Degree

Bachelor of Arts**Admission to the Major**

The department counsels freshmen and transfer students. Formal admission to the major requires a 2.00 average and approval of the department undergraduate advisor.

Composition and Reading Requirement—See Undergraduate Degree Requirements under General Academic Regulations.

Language Requirement—See Undergraduate Degree section under the College of Arts and Sciences

Departmental Requirements**REQUIRED COURSES**

- 19.100 Introduction to Economics
- 19.300 Price Theory and Its History
- 19.301 Income Theory and Its History

ELECTIVE COURSES

Four courses chosen from departmental offerings, .300 level or above. Courses numbered 19.390 or 19.396 can be used only with the permission of the B.A. advisor.

QUANTITATIVE COURSES

19.310 Introduction to Econometrics or 69.202 Basic Statistics is required. Students are urged to take 19.305 Introduction to Quantitative Economics.

RELATED COURSES

Four courses at the .300 level or above selected from the following fields, with not more than 3 courses in any one: anthropology, business administration, education, government, history, international relations, mathematics, philosophy, psychology, sociology.

Note: Grade of "C" or better is required in all major, tool and related courses. Students planning to continue on to graduate work in economics are advised to take mathematics as a related field.

Electives

To complete a minimum of 32 courses.

Students majoring in economics are required to complete a minimum of seven courses in economics. All .500-level courses in the department are open to undergraduates who have the necessary prerequisites. A student should not use his electives entirely in his own field. For some purposes, 10.306 and 10.307, Accounting I and II, are useful electives.

Students interested in political economy can develop a concentration by including as part of their electives courses such as Comparative Socialist Development, Urban Political Economy, Political Economy of Economic Development, and Alternative Economic Theories and Institutions.

The Department of Economics is in the process of designing a program in applied economics to serve the needs of students planning a professional career in applied economics. The major thrust of the program will be mastering the application, of economic theory and applying it to a variety of different problem areas, *i.e.*, environment, health care, etc. The program will provide the flexibility needed to allow students, as part of their academic program, to work in a job related to their field of interest and to obtain academic credit for work experience.

Joint Majors

Because the department requires only eight courses in economics (and statistics), a student frequently can work out a double or joint major with other fields such as business, communications, political science, international relations, history, etc. See the department's undergraduate advisor for details.

Honors

Students may sign up for 19.498 (Economics Honors I) and 19.499 (Economics Honors II)—one course each. In these courses the student shall undertake individual readings and research projects under the guidance of a faculty member. A student can graduate "with honors in Economics" upon completion of these courses. For eligibility requirements and further details see the department's undergraduate advisor.

The Washington Economic Policy Semester

General Description

The Washington Economic Policy Semester is an intensive examination of the policy making process in Washington, particularly as it relates to economic policy. The course is designed for students with an interest in the practical as well as the theoretical. The semester includes international as well as domestic economic policy—the macro as well as micro dimensions of such policy.

The Program of Study

The Seminar (two course unit credits)

The Washington Economic Policy Semester will include an intensive seminar which will encompass a theoretical analysis of the economic problems covered; extensive readings;

on-site discussions with economic policy decision makers; preparation of papers; presentation of alternative paradigms used to understand economic policy. The students will earn two course unit credits in the seminar (equivalent to eight semester hour credits).

The Internship or Independent Research Project (one course unit credit)

In addition to the seminar, the semester will include a choice between an internship in a private or governmental agency or an intensive research project. Students opting for the internship will have the opportunity to gain first hand experience and pursue directed research within an organization directly involved in the field of economic policy. Students who elect the independent research project option will work in consultation with a faculty member of the Department of Economics.

Course Work (one course unit credit)

An elective chosen from courses currently offered by The American University. With a wide selection available each student may pursue his or her own interests or work toward the fulfillment of his/her home school's requirements.

Prerequisites for Student Admission

The Washington Economic Policy Semester is designed for undergraduate students with an interest in policy issues who are in the upper division level in their major field of study. Student applicants must possess a cumulative grade average no lower than the line between B and C (1.5 on a scale where A equals 3.0; 2.5 on a scale where A equals 4.0; and 79.5 on a 100 point scale; etc.).

For further information, contact the Director, Washington Semester Programs, School of Government and Public Administration, The American University, Washington, D.C., 20016.

Graduate Degrees

Candidates for graduate degrees in all departments are subject to University Graduate Degree Requirements (See Graduate Degree Requirements under General Academic Regulations). Requirements given below list the minimal requirements from a departmental point of view. University requirements that exceed these requirements are nonetheless binding upon the student.

Master of Arts

Admission—See Graduate Admission under Admission Information.

The Graduate Record Examination is recommended. In general an overall grade point average of B (3.00) in the last two years of undergraduate work is required.

Course Requirements

Minimum of 30 hours of *approved graduate work* is required. This must include 19.500 Price Theory and 19.501 Income Theory I with grades of B or better. 19.522 Econometrics I or an approved substitute is required. Either 19.305 Introduction to Quantitative Economics or 19.521 Quantitative Economic Analysis is required. 19.305 is not a graduate course and will not count toward the 30 hours of graduate work. Students who have not completed the undergraduate prerequisites to 19.500 and 19.501 may take 19.603 Introduction to Economic Theory as prerequisite to both graduate theory courses. 19.603 will not count as part of the 30-hour degree program, since it is designed for students without undergraduate backgrounds in economics.

Candidates for the M.A. in Economics must pass the following comprehensive examinations:

(1) A written examination in economic theory. This examination includes both price and income theory. A student who has received grades of A in both graduate theory courses may waive this examination.

(2) A written examination in one of the Graduate Comprehensive Examination Fields listed below.

The student must take both examinations during the same examination period.

Students must either complete a Master's thesis, two non-thesis seminars, two independent research projects which have been approved as a non-thesis option, or one seminar and one independent research project.

Master of Arts in Applied Economics

The Master of Arts in Applied Economics, offered jointly by the Department of Economics and the College of Continuing Education, is designed to serve the professional needs of working people seeking to further their education in their career field. The program is directed towards the economists, program analysts, statisticians, and other persons interested in the application of economic theory to the analysis of current problems. It provides the flexibility needed to enable the fully employed student to meet the requirements without sacrificing quality education.

Courses will be taught primarily by full-time faculty of the Department of Economics. In addition, experts in various specialized fields will be brought in as visiting speakers and teachers. For example, the National Economic Policy Seminar will be taught on a rotating basis by senior economists in policy making positions.

Courses will be scheduled on a flexible basis, and many will be held off-campus. Some courses may be given on weekends. Others may be offered on a very intensive basis, e.g., background reading followed by a week of intensive lectures and discussion, followed by more background reading, and another week of intensive lectures, discussions, and examinations. Every effort will be made to schedule courses in an educationally sound manner which is also convenient for people who work full-time and who may also be in and out of Washington for certain periods of time.

A candidate applying for admission to the Master of Arts in Applied Economics program must have a bachelor's degree from an accredited college or university and must have a 2.5 cumulative grade point average, based on a four point system, in the undergraduate program. Forms for application to the graduate program and the required letters of recommendation may be obtained from the Office of Admission, Financial Aid, and Veterans Affairs, Programs and Services.

Provisional admission may be granted to those who do not meet the minimum standards for admission. This may be accomplished by demonstrated academic performance in the completion of the Graduate Certificate Program in Applied Economics (see below).

Each student will be assigned to a faculty advisor who will outline and approve the student's program. Courses and their sequence will be planned. The program must be completed with at least a B average for all graduate courses taken.

In addition to the prerequisites, the program consists of at least 33 credit hours of graduate course work. A student must complete 15 hours of core requirements together with six hours of course work within one field of concentration and 12 hours of electives. The required Seminar in National Economic Policy (19.783) must be supplemented by an additional three hours of seminar work or three hours of independent study to fulfill the non-thesis option. As a final requirement, students will be required to pass one written comprehensive in their field of concentration.

Foundation Courses in Economics

(Waiver of these prerequisites may be granted for well qualified persons with comparable prior education or experience. No graduate credit will be allowed for these courses.)

- 19.100 Introduction to Economics
- 19.300 Price Theory and Its History
- 19.301 Income Theory and Its History
- or
- 19.603 Introduction to Economic Theory (may be substituted for 19.300 and 19.301)
- 19.310 Introduction to Econometrics
- or
- 69.202 Basic Statistics

Required Courses (15 semester hours)

- 19.500 Price Theory
- 19.501 Income Theory
- 19.503 Introduction to Political Economy
- 19.522 Econometrics I
- 19.783 Seminar in National Economic Policy (may be taken twice)

Field of Concentration (16 semester hours)

Electives (12 semester hours)

THE GRADUATE CERTIFICATE IN APPLIED ECONOMICS

The College of Continuing Education in cooperation with the Department of Economics offers qualified adults the opportunity to pursue advanced study in the field of applied economics. A student will earn a Graduate Certificate in Applied Economics by completing the prescribed 15 graduate semester hour credits.

The certificate is offered to students who are seeking a more thorough background in economics, yet are uncertain at the present time whether they wish to pursue a master's degree program. Under certain conditions, certificate work may apply toward a graduate degree objective.

Courses will be taught primarily by full-time faculty of the Department of Economics. In addition, experts in various specialized fields will be brought in as visiting speakers and teachers.

Courses will be scheduled on a flexible basis, and many will be held off-campus. Some courses may be given on weekends. Others may be offered on a very intensive basis, e.g., background reading followed by a week of intensive lectures and discussion, followed by more background reading, and another week of intensive lectures, discussions, and examinations. Every effort will be made to schedule courses in an educationally sound manner which is also convenient for people who work full-time and who may also be in and out of the Washington, D.C., area for certain periods of time.

The College of Continuing Education may offer admission to a graduate certificate program as an alternative for the applicant who applies for, and is not accepted for admission to a graduate degree program. If a student who does not meet The American University's requirements for graduate admission completes 12 semester hours of the graduate certificate program with at least a 3.5 grade point average, he will be considered for admission to the Master of Arts in Applied Economics (see above).

A student in a graduate certificate program must maintain at least a C average in all courses taken. If a D grade is received in any course, the student must repeat that course or take an additional approved substitute. Waiver of foundation courses may be granted to exceptionally well qualified persons with comparable prior education or experience. Only three hours of acceptable and approved credit at the graduate level may be transferred from other accredited institutions into the certificate program.

To qualify for this program, students must have a bachelor's degree from an accredited institution. For those students who are not United States citizens, special approval for admission is required from the Office of Admissions, Financial Aid, and Veterans Affairs, Programs and Services.

Foundation Courses

Prerequisites to the certificate program may be waived in lieu of prior education or experience. No graduate credit granted for these courses.

- 19.100 Introduction to Economics
- 19.300 Price Theory and Its History
- 19.301 Income Theory and Its History
- 19.310 Introduction to Econometrics
- or
- 69.202 Basic Statistics

General Requirements (nine semester hours)

- 19.500 Price Theory
- 19.501 Income Theory I
- 19.522 Econometrics I

Field Courses (three semester hours)

Electives (three semester hours)

For further information, contact the Director, Applied Economics Program, College of Continuing Education, The American University.

Doctor of Philosophy

Admission—See Graduate Admission under Admission Information.

The Graduate Record Examination is recommended. In general, overall grade point

averages of B (3.00) in the last two years of undergraduate work and a B+ (3.50) in previous graduate work are required.

General Objectives

The Department of Economics offers a Ph.D. in Economics with programs of study in Economics and Political Economy. The Doctor of Philosophy degree prepares persons for teaching in institutions of higher learning, for independent research, and for effective service in a leadership capacity in either private business or government. The program requires completion of tool requirements, comprehensive examinations, and an original research project presented in a dissertation.

Course Requirements

Minimum of 72 hours of approved graduate work is required, including 19.799, Doctoral Dissertation Seminar (up to 24 hours). Students entering the Ph.D. program with M.A. degrees earned elsewhere must complete *at least* 30 hours of graduate work in residence plus 12 hours of dissertation credit.

Tool of Research

The tool of research requirement may be fulfilled by completing the following courses with a grade of B or better in each course:

(1) Program in Economics

19.521 Mathematical Economic Analysis

19.522 Econometrics I

19.523 Econometrics II or an alternative tool which may aid the graduate student in further research into economic problems (e.g., 19.704 Seminar in Economic Thought, a language, or an alternative research methodology)

19.508 European Economic Development

19.507 Economics of American Development

(2) Program in Political Economy

19.305 Introduction to Quantitative Economics

OR

19.521 Mathematical Economic Analysis (19.521 is recommended for students with the equivalent of 19.305)

19.522 Econometrics I

19.508 European Economic Development

19.507 Economics of American Development

The Ph.D. student (in order to further familiarize himself/herself with research techniques and methods and the practical problems involved in research) will be required to have at least two courses of individual research. The individual research project requires the willingness of a faculty member to approve the proposed research and to serve as an advisor to the student.

In addition, candidates for the Ph.D. are expected to gain experience in classroom teaching, either through direct responsibility for teaching introductory level courses or by serving as discussion leaders and graders for large classes supervised by faculty members. This means that all full-time Ph.D. students should have teaching experience during some part of their program.

Comprehensive Examinations

An oral qualifying examination will be required after completion of 24 semester hours and no later than one semester before comprehensives are taken. This examination will be at the intermediate level in economic theory and at the introductory level in all other areas of economics. In addition, the student will be examined on comprehensive fields.

(1) Program in Economics—four examinations required:

a) Contemporary Economic Theory: Price

(Suggested courses: 19.703 Microeconomic Analysis; 19.770 Seminar in Economic Theory, Price; 19.504 Economic Thought)

b) Contemporary Economic Theory: Income

(Suggested courses: 19.701 Income Theory; 19.771 Seminar in Economic Theory, Income; 19.504 Economic Thought)

c) Two elective fields

(In general, at least two courses are suggested for each field. Students should consult the faculty in their fields for specific courses. History of Economic Development may be taken as a field.)

(2) Program in Political Economy—four examinations required:

- a) Theory of Political Economy I
(Suggested courses: 19.506 Theory of Political Economy; 19.706 Seminar in Political Economy)
- b) Theory of Political Economy II
(Suggested courses: 19.701 Income Theory; 19.703 Microeconomic Analysis; 19.504 Economic Thought; 19.704 Seminar in Economic Thought)
- c) Two elective fields
(In general, at least two courses are suggested for each field. Students should consult the faculty in their fields for specific courses. History of Economic Development may be taken as a field.)

Courses associated with the theory comprehensives (in both Economics and Political Economy) are *recommended*, but do not have to be taken for credit in order to take comprehensives. This decision is at the student's discretion *in consultation with an advisor*. The student is responsible for learning the material covered by the recommended courses for comprehensive examinations. The student (at his/her discretion) has the privilege of taking one screening examination in each course at any time before comprehensives are taken. At the option of the faculty member, this examination may be the final examination in the course.

The student can elect to spread the comprehensive examinations over two semesters. If this is done, the two theory examinations must be taken in the same semester, and the two elective field examinations should be taken in the next semester.

Tool of research courses should be completed before comprehensive examinations are taken. Students desiring an exception to this rule should consult with the Ph.D. advisor.

Graduate Comprehensive Examination Fields

- 19.01A Contemporary Economic Theory: General (required of M.A. students)
- 19.01B Contemporary Economic Theory: Price (required of Ph.D. students)
- 19.01C Contemporary Economic Theory: Income (required of Ph.D. students)
- 19.002 History of Economic Thought
- 19.003 Economic History of Europe
- 19.004 Economic History of the United States
- 19.005 History of Economic Development
- 19.006 Theory of Political Economy I
- 19.06A Theory of Political Economy II
- 19.005 History of Economic Development
- 19.006 Theory of Political Economy
- 19.007 Economic Growth and Development
- 19.07A Economic Development Policy (not open to students in Department of Economics)
- 19.008 Manpower Economics and Human Resources
- 19.009 International Economics
- 19.09A International Economic Policy (not open to students in Department of Economics)
- 19.011 Comparative Economic Systems and Soviet-type Economies
- 19.013 Monetary Economics
- 19.014 Public Finance and Fiscal Policy
- 19.015 Urban Economics
- 19.016 Mathematical Economics
- 19.017 Econometrics
- 19.018 Quantitative Methods in Economics (open only to M.A. candidates)

Dissertation

The student obtains approval for his dissertation topic from an interested faculty member in the field of the dissertation, who becomes chairman of the dissertation committee. This committee, especially the chairman, supervises the preparation of the dissertation and reviews it upon completion. An oral examination on the dissertation is given after the complete dissertation is submitted.

Honors

The Simon Naidel prize of \$50 is awarded annually to the graduate student in economics who has written the most outstanding comprehensive examination, as judged by the faculty of the Department of Economics.

The Frank Tamagna prize of \$100 is awarded annually to an outstanding graduate or

undergraduate student in monetary economics as judged by those professors teaching monetary economics.

The Fritz Karl Mann Fund is a loan fund for graduate or undergraduate students in economics. The loan fund is administered by the chairman of the department.

Courses of Instruction

Undergraduate level course values are expressed as *course units* according to the following decimal notations: (c 00.25) = $\frac{1}{4}$ course unit; (c 00.50) = $\frac{1}{2}$ course unit; (c 00.75) = $\frac{3}{4}$ course unit; (c 01.00) = 1 course unit; (c 01.50) = $1\frac{1}{2}$ course units; etc.

Graduate level course values are expressed as *semester credit hours* according to the following decimal notations: (s 01.00) = 1 semester hour; (s 02.00) = 2 semester hours; (s 03.00) = 3 semester hours; etc. There are no fractional semester credit hours.

Undergraduate Courses

19.100 Introduction to Economics (c 01.00)

Survey of basic economic issues and policy. Institutional framework. National income, employment, inflation, and growth. Business cycles and national economic policy. Resources and resource allocation, poverty, public finance.

19.110 Selected Topics in Economics (c 01.00)

Application of economic principles to topics in international trade and finance, national economic policy, theory of the firm. Subject matter and prerequisites vary. See semester bulletin.

19.300 Price Theory and Its History (c 01.00)

Theory of relative prices of commodities and productive services under perfect and imperfect competition. The theory of the firm and the theory of consumer demand. In addition, the history of price theory is traced through the writing of Smith, Ricardo, Marshall, Walras, to date. *Prerequisite*: 19.100.

19.301 Income Theory and Its History (c 01.00)

Basic concepts and theory of income, employment and economic growth. In addition, the history of income theory is traced through Ricardo, Wicksell, Keynes, to date. *Prerequisite*: 19.100.

19.302 Alternative Economic Theories and Institutions (c 01.00)

An analysis of the theories of Karl Marx, Thorstein Veblen, the Historical School, the Institutionalists, and modern dissenters from orthodox economics. Also an analysis of non-capitalist institutions and economics. *Prerequisite*: 19.100.

19.303 Introduction to Economic Theory (c 01.00)

An introduction to macro and micro economic theory for non-economics and non-business majors. *Prerequisite*: 19.100.

19.304 Labor Economics: Poverty and Human Resources (c 01.00)

Application of economic theory to the analysis of current labor problems, domestic and foreign. Problems include wage policy and wage differentials, manpower policy, poverty, unemployment and underemployment, discrimination, productivity, industrialization, and union policies. *Prerequisite*: 19.100.

19.305 Introduction to Quantitative Economics (c 01.00)

Selected topics from analytical geometry, calculus, linear algebra, statistics, computers, and their application to problems in economic research and analysis. *Prerequisites*: 41.100 and 19.100 or equivalent.

19.306 Money and Banking (c 01.00)

Role of money and credit in the economy. Structure and operations of commercial banks. The Federal Reserve System and processes and instruments of monetary policy. Nonbanking financial institutions and the structure of financial markets. Elements of monetary theory. The "flow of funds" and its use in monetary analysis. *Prerequisite*: 19.100.

19.307 Political Economy of Economic Development (c 01.00)

Theories of economic development (classical, Marxian, and modern). Simple growth models. Development strategies in agriculture and industry, population problems and development planning. Imperialism and Dependency. *Prerequisite:* 19.100.

19.308 History of Economic Development (c 01.00)

An historical investigation of the economic development process using Europe and the United States as case studies. Emphasis is placed on economic theory to illuminate the process of historical development. *Prerequisite:* 19.100.

19.309 Public Economics (c 01.00)

Introduction to the theory of taxation, public expenditure and fiscal policy. Comparative survey of fiscal institutions in the U.S. and abroad. Government approaches to income redistribution and problems of poverty: negative income tax, family allowances, etc. *Prerequisite:* 19.100.

19.310 Introduction to Econometrics (c 01.00)

Introduction to the theory of economic statistics and statistical techniques. Emphasis will be upon applying statistical models to economic data. Introduction to probability, significance testing, elements of correlation, regression analysis, and testing hypotheses. *Prerequisites:* 19.100 and 41.100 or equivalent.

19.311 International Economics (c 01.00)

In the fall semester the course is for non-economics majors. The class is less theoretical than in the spring semester and more concerned with current trends and policy issues. The spring semester course is designed for economics majors only. It stresses the theory of international trade, economic integration, foreign investment and capital movements, and international monetary affairs. *Prerequisite:* 19.100.

19.314 Junior/Senior Seminar (c 01.00)

This course is designed to encourage all economics majors to do independent research during their junior and senior years. Topics will be chosen by professors and students involved. *Prerequisite:* Junior or senior standing in economics.

19.315 Urban Political Economy (c 01.00)

The economic functions of cities, pollution, metropolitan decentralization, urban growth and development, transportation, urban form and structure, housing markets and discrimination, land-use patterns, urban renewal, local government finance, and poverty. *Prerequisite:* 19.100.

19.316 The Economics of Discrimination (c 01.00)

Review of theories of discrimination and critiques of those theories. Special emphasis on evaluating empirical research designed to test major theories of discrimination, as they apply to the problems of Blacks, Chicanos, American Indians, and women in the U.S. economy. Some attention will be given to the phenomenon of economic discrimination in other economies as well.

19.317 Political Economy (c 01.00)

Examination of the interdependence of political, economic, and social forces in society as they relate to contemporary societal problems. Topics covered: methodology of political economy; conservative, liberal, and radical theories of political economy; class, power, and stratification in different societies; theory of the state and its role in society. *Prerequisite:* 19.100.

19.318 Asian Economic Problems (c 01.00)

A lecture and discussion course on economic problems, especially those related to modernization, in contemporary East, Southeast, and South Asia. *Prerequisite:* 19.100. Offered fall semester, odd-numbered years.

19.319 Methodology of the Social Sciences (c 01.00)

Philosophy and methodology of the social sciences with emphasis on economics. Historical and institutional methodologies. *Prerequisite:* 19.100.

19.390 Independent Reading Course in Economics (c 00.25 through 02.00)

See Independent Reading Courses and Study Projects under General Curriculum Information.

19.396 Selected Topics (c 01.00)

See Non-Recurring Selected Topics Courses under Other Academic Regulations.

19.490 Independent Study Project in Economics (c 00.25 through 02.00)

See Independent Reading Courses and Study Projects under General Curriculum Information.

19.498 Economics Honors I (c 01.00)

See department undergraduate advisor.

19.499 Economics Honors II (c 01.00)

See department undergraduate advisor.

Graduate Courses

All courses listed below carry graduate credit. .500 level courses are open to graduate and qualified undergraduate students. Undergraduate students in .500 level courses receive one course unit for 3 or 4 semester hour credits. Courses at the .600 and .700 levels are open to graduate students only.

GENERAL ECONOMIC THEORY**19.500 Price Theory (s 03.00)**

Theory of resource allocation and the price system. Theory of demand, production, and distribution. Market structure and performance. *Prerequisite:* 19.300 or permission.

19.501 Income Theory I (s 03.00)

The Keynesian model of income determination. Detailed study of consumption, investment and interest rate theories. The Keynesian and classical systems compared. *Prerequisite:* 19.301 or permission.

19.503 Introduction to Political Economy (s 03.00)

An analysis of contemporary economic problems from a political-economic perspective, examining the interdependence of economic, political, and social forces. Special emphasis on the methodology of political economy and comparisons among conservative, liberal, and radical theories of political economy. Examination of the theory of the state and its role, and of class, power, and stratification in society. *Prerequisite:* 19.100.

19.506 Theory of Political Economy (s 03.00)

A rigorous analytical treatment of the methodology of political economy, value theory, the accumulation process, crises and depressions, and recent developments in value theory. *Prerequisites:* 19.300 and 19.301, or 19.603.

19.510 Cost-Benefit Analysis (s 03.00)

Theoretical and methodological alternatives in identifying the economic and non-economic costs and benefits of development projects. The methods and techniques necessary in carrying out alternative cost-benefit estimates on development projects. Problems of under- and over-specification; problems and uncertainties in assessing non-quantifiable impacts. *Prerequisites:* 19.500 and 19.501.

19.603 Introduction to Economic Theory (s 03.00)

An intensive introduction to the major analytical tools of price theory and income theory. No graduate credit. *Prerequisite:* 19.100.

19.702 Macroeconomic Analysis (s 03.00)

Macroeconomic models. Theories of inflation. Monetary and fiscal theories. Theories of growth. *Prerequisite:* 19.501.

19.703 Microeconomic Analysis (s 03.00)

The theory of demand. The theory of production and distribution. The theory of supply. *Prerequisite:* permission.

19.706 Seminar in Political Economy (s 03.00)

The seminar treats the contemporary political economic analysis of monopoly capitalism. *Prerequisite:* 19.506 or permission.

19.770 Seminar in Economic Theory: Price (s 03.00)

Theory of market structure and performance. Capital theory and theory of economic growth. Welfare economics. *Prerequisite:* 19.500 or 19.703.

19.771 Seminar in Economic Theory: Income (s 03.00)

Advanced analysis of problems of income determination and economic growth. Discussion and supervised research. *Prerequisite:* permission of instructor.

19.772 Seminar in Economic Theory: Welfare (s 03.00)

Advanced analysis of problems in welfare economics. Discussion and supervised research. *Prerequisite:* permission of instructor.

QUANTITATIVE ECONOMICS**19.521 Mathematical Economic Analysis (s 03.00)**

Mathematical analysis of economic theory and problems. Linear programming, Input-output, Lagrange multipliers, difference and differential equations. *Prerequisite:* 41.222 or permission.

19.522 Econometrics I (s 03.00)

Theory of economic statistics and development of statistical models to be applied to economic data. Probability theory, statistical criteria, hypothesis testing, correlation and regression analysis, analysis of variance; emphasis will be upon application to economic data. *Prerequisite:* 3 hours of undergraduate statistics.

19.523 Econometrics II (s 03.00)

A review of regression analysis and statistics, testing of hypotheses, a rudimentary treatment of the problem of aggregation, identification, multicollinearity and serial correlation; sources of economic data; an examination of computers in economics. *Prerequisites:* 19.521 and 19.522 or 6 hours of undergraduate statistics.

19.785 Seminar in Mathematical Economics (s 03.00)

Application of mathematical methods to the study of economics. Advanced study of static and dynamic models. *Prerequisites:* 19.521, 41.222, and 41.223 or permission.

19.786 Seminar in Econometrics (s 03.00)

Advanced quantitative analysis. Construction of stochastic economic models. Problems of specification, estimation, verification and prediction. *Prerequisite:* 19.523.

MONEY, CREDIT, AND BANKING**19.525 Political Economy of International Finance (s 03.00)**

Balance of payments accounts, modern theories concerning interrelations between price level, balance of payments, and capital movements. Foreign exchange markets, foreign investments and capital movements. International financial organizations. The international monetary system and its reform; neoimperialism. *Prerequisites:* 19.306 and 19.311. Fall semester of alternate years.

19.530 Central Banking (s 03.00)

Comparative institutional and policy analysis of central banks. Relations to government and formulation of monetary policy. Quantitative and qualitative instruments. Monetary policy and economic growth in advanced countries. The role of central banks in developing countries. Central banks and international monetary institutions and arrangements. *Prerequisites:* 19.301 and 19.306. Offered odd years only.

19.531 Financial Markets (s 03.00)

Comparative analysis of financial markets in advanced and developing countries. Formative factors, nature, and functions. Sectors, institutions, and instruments. Sources and uses of funds and the influence of official and international policies and operations. Role in development programs and their behavior under inflation and stabilization conditions. *Prerequisites:* 19.300, 19.301, and 19.306. Offered even years.

19.532 Monetary Theory and Policy (s 03.00)

Evolution of theories of money and interest in their relation to saving, investment, and income. Concepts of time and liquidity of preference, role of velocity in income determination. Relation

of theory to market processes and monetary policies. The role of credit policy in the economy. *Prerequisites:* 19.300, 19.301, and 19.306. (May not be taken by students who have already taken 19.731 for credit.)

19.533 Development Banking (s 03.00)

The role and functions of institutions specializing in development financing, including public, private and mixed development banks, with analysis of their respective advantages and disadvantages in the light of past experience. Also, relations of development banks to money and capital markets—competitiveness and compatibility with other financial institutions; the sources of funds; the use of funds, autonomous and syndicated operations; management of loan, bond and equity financing, etc.; project generation and selection, technical market and socio-political evaluations; fund management and project supervision; loan repayment and successive financing and development banking as instruments of development promotion. *Prerequisites:* 19.500 and 19.501.

19.780 Seminar in Monetary Economics (s 03.00)

Economic and monetary trends and their interrelationship. Federal Reserve policies and government financial operations and their effects on money and capital markets. Review of current economic indicators and monetary and financial statistics. Discussion and supervised research. *Prerequisite:* 19.532 or permission.

ECONOMIC POLICY

19.541 Public Economics I (s 03.00)

Rationale for the existence of the public sector. Theory of public goods. Theory of taxation. *Prerequisites:* 19.500 and 19.501 or permission.

19.542 Public Economics II (s 03.00)

Analysis of public expenditure. Cost-benefit analysis, budgeting, fiscal policy. *Prerequisite:* 19.541 or permission.

19.544 Survey of Urban Political Economy (s 03.00)

The economic functions of cities; pollution, metropolitan decentralization, urban growth and development, transportation, urban morphology, housing markets and discrimination, land-use patterns, urban renewal, and local government finance. *Prerequisite:* 19.500 or permission of instructor.

19.783 Seminar in National Economic Policy (s 03.00)

Economic aspects of leading problems in public policy. Formulation of national economic policy: planning principles and data bases. Discussion and supervised research. *Prerequisite:* open to advanced Ph.D. students and as terminal seminar for M.A. candidates, others by permission.

19.787 Seminar in Public Economics (s 03.00)

Discussion of the role of taxation and government expenditure. Optimal tax structure. Optimal public expenditure. Role of fiscal policy in stabilization and growth. *Prerequisites:* 19.541 and 19.542 or permission.

19.789 Seminar in Urban Political Economy (s 03.00)

Selected advanced topics. Discussion and supervised research. *Prerequisite:* 19.544.

INTERNATIONAL ECONOMICS

19.551 International Economic Theory (s 03.00)

Theory of international specialization, world trade and development, commercial policy, balance of payments. *Prerequisites:* 19.300 and 19.301.

19.555 Political Economy of Latin American Development: Theories versus Realities (s 03.00)

Review of Development Theory. Structural problems: economic, social, and political institutions. External dependency and internal instability: trade, foreign investment, aid, and unemployment, population, technology. The role for integration. Current fiscal and monetary policies. *Prerequisites:* 19.307 and 19.301 or 19.300 or permission.

19.558 Current International Economic Problems (s 03.00)

A lecture and discussion course dealing with international trade policy. International economic cooperation and integration, international factor movements (migration, foreign investment, foreign loans, foreign aid) and the international monetary system and its reform. Particular attention will be paid to the international economic problems of low-income countries and to U.S. foreign economic policy. *Prerequisite:* 19.311.

19.784 Seminar in International Trade and Finance (s 03.00)

Beginning with the international economic problems of low-income countries, deals with the major current problems of the international economy, including trade problems and policies, foreign aid, foreign investment, economic integration, the U.S. balance of payments and the international monetary system. *Prerequisite:* 19.551 or permission.

ECONOMIC DEVELOPMENT**19.533 Economic Problems of Southern Asia; Survey (s 03.00)**

Analyzes major economic features, problems and policies, especially as they relate to the modernization process, in the region that includes India, Pakistan, Ceylon, Burma, Thailand, Cambodia, Laos, Vietnam, Malaysia, Singapore, Indonesia, and the Philippines. *Prerequisite:* permission. Offered Fall semester, even-numbered years.

19.554 Economic Problems of Southern Asia: Case Studies—Indonesia, Malaysia, and Singapore (s 03.00)

Analyses, comparisons and contrasts, especially as related to modernization in the economies of the three countries. Especially recommended for students wishing intensive study in economic development, or in the countries concerned. *Prerequisite:* permission. Offered Spring semester, odd-numbered years.

19.559 Patterns and Problems of Economic Development in Asia (s 03.00)

An examination of economic development, its history, its trends and its problems in Japan, China, and the formerly colonized areas, especially India, Pakistan, and Indonesia. Looks for lessons in the Japanese experience and those of the more or less socialized countries, and those of the more or less open economies. *Prerequisite:* permission. Offered Spring semester, even-numbered years.

19.560 Economic Development (s 03.00)

Patterns, theories, and models of economic development of advanced and underdeveloped economies. Some historical theories and approaches to economic development. Theoretical concepts and issues in development planning. *Prerequisites:* 19.300, 19.301 or 19.603.

19.561 Development Planning (s 03.00)

This course will be concerned with both macro and micro aspects of development planning. Both plan formulation and implementation will be considered. Theory will be compared with actual experience. The course will consider selected developed, less developed, socialist, mixed-economy countries in Africa, Asia and Europe as well as the Americas. *Prerequisite:* permission.

19.788 Seminar in Economic Development (s 03.00)

Trends in living standards, economic planning programs, capital formation, industrial-agricultural techniques, monetary and fiscal structures, income distribution, foreign trade of underdeveloped countries. *Prerequisite:* 19.307 or 19.560.

LABOR ECONOMICS**19.571 Labor Economics: Theory (s 03.00)**

Theories used to explain the emergence of labor organization; history of the development of labor organization; theories of exploitation and alienation; contemporary theories of wages, employment and prices; collective bargaining in a comparative context; the impact of collective bargaining on the American economy; theories and empirical studies of wage differentials. *Prerequisites:* 19.300 and 19.301.

19.790 Seminar in Current Labor Problems: Poverty and Human Resources (s 03.00)

Analyzes causes and consequences of poverty in the American economy. The meaning and measurement of poverty; economics of inequality; income distribution; causes of poverty, including low wages, low incomes, unemployment; economics of racism; economics of education; policies to alleviate poverty: manpower, education; income maintenance; income redistribution. *Prerequisites:* 19.300 and 19.301.

HISTORY OF ECONOMIC THOUGHT

19.504 Economic Thought (s 03.00)

The major figures in the history of economic thought in terms of their social and economic thought and the tools of analysis they created. *Prerequisites:* 19.300 and 19.301.

19.704 Seminar in Economic Thought (s 03.00)

Special topics in the history of economic thought, with emphasis on problems of methodology and philosophy. *Prerequisite:* 19.504.

HISTORY OF ECONOMIC DEVELOPMENT

19.507 Economics of American Development (s 03.00)

A statistical and analytical investigation of long-run behavior of national income, population, savings, investment, consumption, labor productivity, and other factors affecting economic growth in the U.S. The concepts of dual economy and balanced growth. *Prerequisite:* permission.

19.508 European Economic Development (s 03.00)

Origins and development of capitalism in the western world, with emphasis on Britain. Emphasis is placed on economic theory to illuminate the process of historical development. *Prerequisite:* permission.

19.709 Seminar in Economic History (s 03.00)

Selected topics and research in economic history—American and European. *Prerequisites:* 19.507 and 19.508.

COMPARATIVE ECONOMIC SYSTEMS

19.512 Comparative Economic Systems (s 03.00)

Three worlds of development (advanced market, advanced non-market, and the developing areas), as represented by the United States, the Soviet Union, and *patterns* of underdevelopment. Meaning of economic systems, and approaches to their study. The course is organized primarily around policy makers and their decisions, rather than around ideology or ownership, with emphasis on national goals and policy measures designed to achieve these goals. *Prerequisites:* 19.300 and 19.301, or 19.603.

19.552 Structure and Operation of the Soviet Economy (s 03.00)

Rate of economic growth, changing structure of the economy with emphasis on period since 1928. Conditioning factors. Planning techniques and procedures. International economic relations. *Prerequisite:* 19.100.

19.791 Seminar in Comparative Economic Systems (s 03.00)

Advanced analysis of problems in comparative economics. Discussion and supervised research. *Prerequisite:* 19.512 or permission.

19.590 Independent Reading Course in Economics (s 01.00 through 06.00)

See Independent Reading Courses and Study Projects under General Curriculum Information.

19.690 Independent Study Project in Economics (s 01.00 through 06.00)

See Independent Reading Courses and Study Projects under General Curriculum Information.

19.696 Selected Topics (s 03.00)

See Non-Recurring Selected Topics Courses under Other Academic Regulations.

19.797 Masters Thesis Seminar (s 03.00 through 06.00)

19.799 Doctoral Dissertation (s 06.00 through 24.00)

Education

Correspondence Directory: Donald R. Thomas, *Chairman*

Fields of Study

Undergraduate: Elementary and early childhood and secondary education.

Graduate: Educational administration and supervision, special education, counseling, science education, and higher education.

Full-time Faculty

Professor: Edith H. Grotberg, Bernard A. Hodinko, Thomas J. Landers, Paul D. Leedy, Nicholas J. Long, Donald R. Thomas, Ralph Whitfield, Sterling D. Whitley.

Associate Professor: Robert J. Chinnis (Assistant Chairman), Franz E. Huber, Craig Messersmith, Dennis D. Miller, John D. Robinson, David Sansbury, Lucille Strain

Assistant Professor: Lenora Cole, Alexander Gottesman, Roslyn Korb, David Sadker, Myra Sadker

Emeritus Professor: Samuel E. Burr, Jr., John W. Devor, Chalmer A. Gross, Frances Holliday

Undergraduate Degree

Bachelor of Arts

Admission to the Major

Students must meet the University admission requirements.

In addition, students must meet the standards required by the Department of Education.

Admission to The American University does not automatically admit one to a program in teacher education.

Continuous Selection Criteria

1. Anyone desiring admission must enroll in the first of a sequence of professional education courses, 21.300 and 21.320. Enrollment in these courses precedes formal application to a teacher education program. Elementary and early childhood education majors normally enroll in these courses during the sophomore year, while those planning to teach in the secondary schools must enroll in these courses not later than the fall semester of the junior year. A grade point average of 2.30, and 57.200 or 57.210 are prerequisites to enrollment in 21.300 and 21.320.

2. Prior to enrollment in either 21.350 Elementary and Early Childhood Methods or 21.340 Secondary Education Methods, the student submits his application for Admission to a Teacher Education Program to the department. Application forms are available at the Department of Education. Admission requirements at this stage consist of:

- Cumulative grade point average of 2.50 or better
- Recommendation by 21.300 and 21.320 instructors
- Recommendation by his/her academic advisor

3. To remain in a teacher education program, a student must maintain a cumulative grade point average of 2.50 or better.

Elementary and Early Childhood Education Major

The following program is required for elementary and early childhood education majors in order to meet most state certification requirements. Even though the professional education aspects of the program have been carefully designed, graduation does not assure one a position as a fully certified teacher. The American University does *not* license one to teach in any given state; such certificates are issued only by a state governmental agency.

The student is responsible for selecting courses which will enable her/him to obtain a certificate in the state of her/his choice. Certification requirements should be examined no later than the beginning of the student's sophomore year. The elementary education program is approved by the National Council for Accreditation of Teacher Education (NCATE). States

recognizing such accreditation guarantee certification to graduates of NCATE approved programs even though the graduate may not meet all specific state requirements. Consult departmental advisor regarding certification matters.

Composition and Reading Requirement—See Undergraduate Degree Requirements under General Academic Regulations.

Language Requirement—See Undergraduate Degree section under the College of Arts and Sciences.

Departmental Requirements

Distribution

HUMANITIES ELECTIVES

Any three (3) course units in the humanities must be taken. These may be chosen from literature, art, music, philosophy, religion, and performing arts.

NATURAL SCIENCES AND/OR MATHEMATICS ELECTIVES

Three (3) course units in the natural sciences and/or mathematics must be taken. 15.160 and 15.161 are required.

SOCIAL SCIENCES ELECTIVES

Any three (3) course units in the social sciences must be taken. These may be chosen from anthropology, economics, history, government, international studies, psychology, and sociology.

ELECTIVE FIELD FOR ACADEMIC CONCENTRATION

An academic concentration (other than education courses) of at least six courses is required. Courses in this area may overlap with any one of the above humanities, natural sciences and/or mathematics, or social sciences depending on one's academic concentration. The six courses may be taken in any one department or school (such as six units of economics or six units of sociology) or interdisciplinary combinations such as six course units distributed in the behavioral sciences, the humanities, the natural sciences/mathematics concentration, and others may be arranged to satisfy specific certification needs.

Professional Core

Students majoring in elementary and early childhood education are required to complete the following courses:

(1) 21.300, Foundations of Education, and 21.320, Psychology of Education, taken concurrently. As part of these courses, enrollees are required to participate in a student aide experience (all day) once a week in an elementary school situation *in addition* to their regular class meetings. *Prerequisites:* 57.200 or 57.210 and a grade point average of 2.30.

(2) 21.350 Methods and Materials in Elementary and Early Childhood Education: General and Special: Reading, Language Arts, Social Studies, Mathematics, and Natural Sciences. Students spend time in elementary school field experiences at least two days per week in addition to regular class meetings. *Prerequisites:* Psychology 21.300 and 21.320 and a grade point average of 2.50, and admission to a program in teacher education.

(3) 21.444 Student Teaching: Elementary and Early Childhood: Grades K through sixth. Fifteen weeks of full-time observation, participation and actual teaching are required.

Note: Persons with a bachelor's degree may arrange to enroll on a half-course basis to meet state certification.

Professional Related Courses

Students are required to complete *any three* (3) of the following courses:

- 5.380 Teaching Art in Elementary Schools
- 21.250 Mathematics for Elementary School Teachers
- 21.345 Children's Literature
- 21.360 Professional Modules in Education
- 21.427 Inner City Education
- 21.581 Physical Science for Elementary School Teachers
- 21.582 Biological Science for Elementary School Teachers
- 43.353 Music for Elementary School Teachers

- 43.361 Vocal Music in Elementary Schools
- 49.310 Elementary School Rhythmic Activities
- 49.330 Health and Safety
- 49.335 Elementary School Games

Students entering the elementary education program as of Fall 1974 are required to take 21.360.

Electives

To complete a minimum of 32 courses.

Transportation to Schools

For both elementary and secondary programs, it is the responsibility of each student to provide transportation to his student aide, methods, and student teaching assignments. Individual requests for specific school assignments *cannot* be honored.

SECONDARY EDUCATION PROGRAM

Undergraduate students planning to teach in secondary schools *must major in the field in which they plan to teach*. In addition they must complete the following courses in professional education:

a. 21.300, Foundations of Education, and 21.320, Psychology of Education, taken concurrently. Students will be required to participate in a three hour block of student aide field experience per week in a secondary school *in addition* to regular class meetings. *Prerequisites*: 57.200 or 57.210 and a grade point average of 2.30 or better. Students must enroll in 21.300 and 21.320 not later than the fall semester of the junior year.

b. 21.340 Methods and Materials in Secondary Education: General and Special: English, Foreign Languages, Mathematics, Natural Sciences, and Social Studies. Methods courses in music, art, and physical education are offered in the respective departments. Methods courses in art, music, and physical education and the section of 21.340 concerned with foreign languages are taken concurrently with 21.445 Student Teaching. *Prerequisite*: 21.300, 21.320, and admission to a program in teacher education.

c. 21.445 Student Teaching: Secondary Schools. Grades 7 through 12. Nine to fifteen weeks of full-time observation, participation and teaching are required. To be taken concurrently with 21.340.

d. Any other courses required for teaching certification in the state in which the student plans to teach.

Transportation to Schools

For both elementary and secondary programs, it is the responsibility of each student to provide transportation to his student aide, methods, and student teaching assignments. Individual requests for specific school assignments *cannot* be honored.

Graduate Degrees

Candidates for graduate degrees are subject to University Graduate Degree Requirements, (see Graduate Degree Requirements under General Academic Regulations). Requirements given below list the minimal requirements from a departmental point of view. University requirements that exceed these requirements are nonetheless binding upon the student.

Graduate requirements are constantly being refined to improve the excellence of the graduate programs of the department. Therefore, students should consult the departmental office for the latest information. The student *must assume all responsibility for meeting deadlines* as announced in the University calendar and must be conversant with all graduate regulations pertaining to his particular degree. It is imperative that each student consult with his adviser as he progresses through the degree. Failure to do so may result in errors, the responsibility for which *must be assumed by the student*.

Master's Degrees

A student entering the Department of Education with a Bachelor's degree has the option of one of four Master's degree programs: (A) a Master of Arts in Education with a major in a field outside of the Department of Education, (B) a Master of Education with a major in one of the specialty fields in the Department of Education, (C) a generalist Master of Education Degree with no specialty, or (D) a Master of Education with a major in secondary education.

Program A is designed for teachers of an academic subject who want to strengthen their background in their subject-matter area in addition to obtaining greater competency in their professional educational activities, and for those persons who prefer to emphasize the academic or research aspects of their educational discipline.

Program B is designed for those persons who wish to concentrate within one professional specialty in education.

Program C is designed for those persons who wish a broad background covering several areas of education. Students in this program are allowed to select courses from several specialty fields and supporting areas but are specifically discouraged from enrollment in the advanced, professional courses within specialty fields.

Program D is designed for those persons with a liberal arts degree who wish a degree in secondary education teaching.

MASTER OF EDUCATION

Candidates for graduate degrees are subject to University Graduate Degree Requirements (see Graduate Degree Requirements under General Academic Regulations). Requirements given below list the minimal requirements from a departmental point of view. University requirements that exceed these requirements are nonetheless binding upon the student.

Admission Requirements

All candidates must have had an overall undergraduate point standing of 2.75 (on a 4.0 scale) based on the last 60 semester hours of work, and a 3.0 or better in education or major field of specialization, and a satisfactory score on the *Graduate Record Aptitude Examination* or the *Miller Analogies Test*. Additional admission requirements may be imposed by the specialty fields.

A student who seeks the Master of Education degree must in most cases be able to meet the requirements for a teacher's certificate in some state in elementary or secondary education *unless* enrolling in a program preparing for positions in higher education or *Program D*. Certification requirements universally require student teaching (or successful teaching experience) or an internship such as 21.659, 21.769, or 21.792.

Students will be admitted to Master's degree programs three times a year with the suggested deadline for applications being May 1 for fall semester, November 1 for spring semester, and March 1 for summer semester. Students are encouraged to apply for admission for the fall semester.

A student may be admitted to a Master's degree program only after all prerequisites are met.

Course Requirements

The minimum course requirement for the Master's degree is thirty semester hours; some programs, however, will require additional hours. All candidates must take Educational Research (21.790) and one of the following:

- 21.791 Research Seminar in Education (required of generalist M.Ed. Candidates)
- 21.659 Practicum in Counseling
- 21.769 Internship in Student Personnel Services in Higher Education
- 21.792 In-Service Training Project: Internship in Education

Written Comprehensive Examinations

For a Master of Education degree in a specialty field, one written comprehensive examination in the field of specialization is required.

Comprehensive Examination Fields

See listing under *Master of Arts*.

Master of Arts

See Graduate Admission under Admission Information regarding minimum standards for admission and University Graduate Degree Requirements.

Admission Requirements

Same as for Master of Education degree.

Course Requirements

In no case will a program for a Master of Arts degree require less than thirty semester hours of credit, twelve of which may be taken in a department other than the Department of Education. All candidates must take Educational Research (21.790) and Master's Thesis Seminar (21.797).

Written Comprehensive Examinations

Two written comprehensive examinations are required: one in a core field of Education and one in a field outside of Education.

Other Requirements

An acceptable thesis and oral defense of the thesis.

Comprehensive Examination Fields for Master of Education and Master of Arts Degrees

1. *Core Fields* (for students in Program A)
 - a. 21.001 History and Philosophy of Education
 - b. 21.002 Psychology of Education
2. *Specialty Fields* (for students in Program B)
 - a. 21.003 Educational Administration and Supervision
 - b. 21.004a Special Education: Learning Disabilities
 - c. 21.004b Special Education: Emotionally Disturbed
 - d. 21.004c Special Education: Reading Education
 - e. 21.005 Counselor Education
 - f. 21.006 Student Personnel Services in Higher Education
 - g. 21.008 Science Education
 - h. 49.001 Physical Education
3. *General Examination* (for students in Program C)
 - a. 21.007 General Education
4. *General Examination* (for students in Program D)
 - a. 21.009 Curriculum and Instruction in Secondary Education

MASTER OF EDUCATION DEGREE PROGRAM FOR TRAINING TEACHERS OF EMOTIONALLY DISTURBED CHILDREN

Beginning July 1969, the U.S. Office of Education Bureau of Handicapped Children funded an experimental program designed to train graduate students with no former undergraduate education background to teach emotionally disturbed children.

A unique characteristic of this 12-month program is that the trainee spends a summer session on The American University campus taking courses from the Department of Education, with the following 9 months at a District of Columbia area public school, in an intensive fifty-hour week intern-seminar program. Upon completion of this program the graduates are awarded a Master of Education Degree in Special Education, and meet certification requirements to teach emotionally disturbed children. Fellowships are available. For further information write: Dr. Nicholas J. Long, Director, Department of Education, Roper Hall, The American University, Washington, D.C., 20016.

INTER-DEPARTMENTAL PROGRAM: MSST AND MST PROGRAMS

For information about the Master of Science in Science Teaching (MSST) program, see Interdepartmental Science.

NOTE: The MST program is being discontinued and replaced by Program D of the M.Ed. degree.

Doctoral Degrees

The Department of Education offers two degrees in education at the doctoral level: the Doctor of Education and the Doctor of Philosophy in Education. Each of these degrees has its own discrete orientation and addresses itself to the singular needs of the student. The Doctor of Education is appropriate for professional educators: teachers at all educational levels, administrative and supervisory personnel, and all others who are engaged primarily in activities of a purely educative nature. The Doctor of Philosophy in Education is structured for those

whose professional orientation to education is not so closely related to classroom activity but rather to research applications of education, or structured for those who may wish to relate education to a particular subject area or academic field.

Qualitatively and quantitatively the degrees are coequal. Their differences lie only in the need to structure each degree program to the professional objective of the student.

The privilege that is granted the student to pursue the discipline for the doctorate presumes that the ability of the student is equal to the rigorous demands of the doctoral program. This ability is evidenced by competence to pass appropriate comprehensive examinations which are addressed to the student's knowledge of his field, and his ability to carry out independent study and research relative to that field. No amount of course work by itself will satisfy the total requirements for the doctorate.

Areas of Study

The Department of Education accepts candidates for the degrees of Doctor of Education and Doctor of Philosophy in Education in the following areas of major study:

Higher Education, in preparation for professional positions in student personnel services and college teaching.

Special Education, in preparation for professional positions as classroom teachers with a specialty in reading; special teachers of reading, reading clinicians, reading consultants, reading supervisors; specialists in reading problems of the inner city, in the unique problems of teaching reading to the exceptional child, in the reading problems associated with the college and adult level; specialists in learning disabilities; specialists in teaching emotionally disturbed children.

Counseling Psychology, in preparation for professional positions as counselors, directors of counseling, and research specialists in counseling. Students are admitted for the Fall semester only. All credentials must be in the hands of the Admissions Committee by the *previous* February.

Educational Administration and Supervision, in preparation for professional positions as school superintendents, elementary and secondary principals, supervisors, and teachers of educational administration.

In addition to study in the above areas, each student is expected to develop competence in complementary areas which are listed under the heading of comprehensive examinations.

Prerequisites

A Bachelor's degree or equivalent, and in most cases, a Master's degree from an accredited institution. The student must also have achieved a satisfactory score on the *Graduate Record Aptitude Examination* or the *Miller Analogies Test*, and have attained a grade point index satisfactory to the Department of Education: 3.50 in his former graduate work and 2.75 in undergraduate work on a four-point scale. The student is advised to consult his proposed major advisor for other specific prerequisites. All prerequisites must be completed before admission to the program.

Course Requirements

No amount of course work by itself will earn the doctorate, but a minimum of 72 hours of graduate credit is required of all candidates. These credits must be distributed in two categories: course credit and dissertation seminar credit. Normally, 60 to 66 hours must be presented in course credits, including 21.790 or equivalent. At least 12 hours must be in dissertation seminar credits. Specific courses may be required in each of the doctoral programs. See Graduate Degree Requirements under General Academic Regulations. In addition, consult the *Guide to Doctoral Degree Programs in Education* and the appropriate program advisor.

Qualifying Examination and Advancement to Candidacy Requirement

A doctoral student shall be advanced to candidacy after presentation of a plan of study to the faculty associated with his major field of study and passage of a qualifying examination assessing his potential for doctoral study in his major field. Such examination shall occur after completion of 9 hours of graduate study, at least three of which shall be in the candidate's major field of study, except that the candidate obtaining the grade of distinction in the comprehensive examination in his same major field at the Master's level at The American University may be advanced to candidacy upon review of his plan of doctoral study by the faculty associated with his major field of study. In this case the Master's comprehensive shall constitute the qualifying examination until the student has accumulated a total of 24 graduate hours.

Comprehensive Examination Requirements

Four comprehensive examinations are required, including two in the candidate's major field of study, one of which shall be an oral examination, and two in complementary fields of study.

Comprehensive examinations currently offered doctoral candidates are the following:

- 21.021A Philosophy of Education
- 21.021B History of Education
- 21.022 Psychology of Education
- 21.023A Educational Administration and Supervision: General
- 21.023B Educational Administration and Supervision: Special
- 21.024A Special Education: Learning Disability
- 21.024B Special Education: Reading
- 21.024C Special Education: Emotionally Disturbed
- 21.025A Counseling Theories and Research
- 21.025B Behavioral Counseling
- 21.025C Group Counseling
- 21.025D Family Systems and Parental Counseling
- 21.025E Organization, Administration and Supervision in Counseling
- 21.025F Vocational Counseling
- 21.025G Dynamic Counseling
- 21.026A Higher Education
- 21.026B Student Personnel Administration in Higher Education
- 21.026C Psychological Aspects of Higher Education
- 21.028 Curriculum Development and Instruction
- 21.030 Educational Research

Candidates for the degree of Doctor of Philosophy in Education *must* take one comprehensive examination outside the Department of Education, normally from among those academic areas which are commonly known as the liberal arts or from another professional field. The student's anticipated occupation must support such an elective as being reasonable and both the Department of Education and the outside department or school must approve the choice. Candidates for the degree of Doctor of Education *may* elect to be examined in a field outside of the department. Candidates must make the necessary arrangements, including course requirements with the department or school in which they will be taking the examination outside the Department of Education. The Department of Education will not assume responsibility for making such arrangements.

Tools of Research Requirements

Proficiency must be demonstrated by all doctoral degree candidates in two tools of research.

Doctor of Philosophy degree candidates must demonstrate proficiency in one foreign language or computer science.

Languages: Tool examinations are given in French, Spanish, German, or another foreign language by special permission of the Department of Education and the Department of Language and Foreign Studies. Examinations are also given in computer language.

Quantitative: The tool examination in *Educational and Psychological Measurement and Evaluation* is administered by the Department of Education on: (1) the Saturday following the first full week of classes in the spring semester and (2) the first Saturday in June. This tool may be satisfied by successful completion, with a grade of B or better, in course 21.522 Evaluation of Student Progress. The tool examination in *Statistics* is administered by the Department of Education or may be satisfied by successful completion, with a grade of B or better, in course 21.625 Educational Statistics II.

Residence Requirement

The year in residence, required of all doctoral students in education, may be satisfied by two consecutive sessions of full-time graduate work at The American University in any one of the following combinations:

- A fall semester (9–12 hours) and a spring semester (9–12 hours) of one academic year.
- A spring semester (9–12 hours) of one academic year and a fall semester (9–12 hours) of the next academic year.
- A summer session (9 hours) and the following fall semester (9–12 hours).
- A spring semester (9–12 hours) and the following summer session (9 hours).

Dissertation Requirement

Each candidate must present a satisfactorily written dissertation and pass, satisfactorily, an oral defense of the dissertation.

Courses of Instruction

Undergraduate level course values are expressed as *course units* according to the following decimal notations: (c 00.25) = $\frac{1}{4}$ course unit; (c 00.50) = $\frac{1}{2}$ course unit; (c 00.75) = $\frac{3}{4}$ course unit; (c 01.00) = 1 course unit; (c 01.50) = $1\frac{1}{2}$ course units; etc.

Graduate level course values are expressed as *semester credit hours* according to the following decimal notations: (s 01.00) = 1 semester hour; (s 02.00) = 2 semester hours; (s 03.00) = 3 semester hours; etc. There are no fractional semester credit hours.

Undergraduate Courses

21.250 Mathematics for Elementary School Teachers (c 01.00)

For future elementary school teachers. Introduction of all mathematical concepts in various mathematics programs in elementary schools. Experience with concrete materials. Evaluation of elementary school mathematics programs. Field experience. Open to sophomores and above.

21.300 Foundations of Education (c 01.00)

Consideration of the social context of American education with special emphasis on contemporary problems and innovations. Lecture, small group discussion, and one-half day of field experience in schools per week. Must be taken concurrently with 21.320, Psychology of Education. *Prerequisites:* 57.200 or 57.210, a grade point average of 2.3, and sophomore standing.

21.320 Psychology of Education (c 01.00)

Psychological problems encountered in learning. Nature and control of learning; theories of motivation; development of skills and knowledge; creative learning and critical thinking. Lecture, small group discussion, and one-half day of field experience in schools per week. Must be taken concurrently with 21.300, Foundations of Education. *Prerequisites:* 57.200 or 57.210, a grade point average of 2.3, and sophomore standing.

21.340 Methods and Materials in Secondary Education: General and Special: English, Social Studies, Science, Mathematics, and Foreign Languages (c 01.00)

General methods, materials and applications to special school subject fields. Laboratory experiences in the university classroom and in area secondary schools. Students provide their own transportation to the field experience assignments. *Prerequisites:* 21.300 and 21.320 or the equivalent, a grade point average of 2.5 (3.0 in the major) and admission to a program of teacher education. Offered Spring semester only, except foreign language methods.

21.342 Methods of Teaching in Secondary Schools (c 01.00)

General teaching methods; some opportunity to apply principles to certain specialized subject matter fields. Laboratory experiences in secondary schools in the Washington area and in use of educational resources. Students provide their own transportation to field experience assignments. *Prerequisites:* 21.300, 21.320, and a grade point average of 2.5. Offered only off-campus. Not offered to students who have had 21.340.

21.345 Children's Literature (c 01.00)

Literature and poetry related to the interests and abilities of children and young adults. A study of tradebooks and related materials from the viewpoint of their value in the developmental process of the individual. Techniques and aids for stimulating reading interests. The use of tradebooks and poetry in the school curriculum. Not open to Freshmen or Sophomores.

21.350 Methods and Materials in Early Childhood and Elementary Education (c 02.50)

Materials and Methods for use in teaching elementary school subjects. Laboratory experiences in university classroom, in area elementary schools, and in the use of other educational

resources. Students provide their own transportation to the field experience assignments. *Prerequisites:* 21.300 and 21.320 or the equivalent, a grade point average of 2.50, admission to a program of teacher education. Note: All students enrolling in this course must have Tuesday and Wednesday completely free of any other class schedule.

21.360 Professional Modules in Education (c 01.00)

Series of three and four week brief courses which focus on a variety of educational topics, ranging from early childhood education to sexism in education. Each module has a 00.25 course unit credit value (one course from each of the four groups accumulates the equivalent of one full course unit credit). Each student must sign up for the four modules, all in the same semester. Consult the *Schedule of Classes* each semester for specific module offerings.

21.390 Independent Reading Course in Education (c 00.25 through 02.00)

A course in which a student does reading research on a topic agreed upon by the student and the instructor. Student selects the instructor with whom he wishes to work. See Independent Reading Courses and Study Projects under General Curriculum Information.

21.427 Inner-City Education (c 01.00)

Introduction to teaching in the inner-city. Weekly seminar and three hours of participation in the field.

21.444 Student Teaching: Early Childhood and Elementary (c 03.00 or 04.00)

Observation, participation, and teaching grades K through 6. Conferences arranged with university supervisor; seminars at frequent intervals. *Four course units* (15 weeks) of student teaching *required for elementary education majors*. Three course units (12 weeks) of student teaching may be taken by those with a Bachelor's Degree who are doing their student teaching for certification purposes only. Students provide their own transportation to and from the field experiences assignment. Elementary student teaching applications must have been submitted by October 1 or March 1 for following semester. *Prerequisites:* Senior status, 21.300, 21.320 and 21.350 or the equivalents, a grade point average of 2.50 and admission to a program of teacher education.

21.445 Student Teaching: Secondary Schools (c 02.50, 03.00 or 04.00)

Observation, participation, and teaching in grades 7 through 12. Conferences with university supervisor, seminars at frequent intervals. Students provide their own transportation to student teaching assignment. Four course units require 15 weeks of student teaching and may be taken only by those who have previously completed 21.340 or equivalent. Two and one-half course units require 9 weeks of student teaching and three course units require 12 weeks of student teaching. *Prerequisites:* 21.300, 21.320 and 21.340 or equivalents, a grade point average of 2.5 (3.0 in the major) and admission to a program in teacher education. Applications for student teaching must have been submitted by October 1 or March 1 for the following semester. NOTE: Offered Fall semester only for English, social studies, mathematics and sciences.

21.490 Independent Study Project in Education (c 00.25 through 02.00)

A course in which the student does research on a topic agreed upon by the student and the instructor. Student selects the instructor with whom he wishes to work. See Independent Reading Courses and Study Projects under General Curriculum Information.

Graduate Courses

All courses listed below carry graduate credit. .500 level courses are open to graduate and qualified undergraduate students. Undergraduate students in .500 level courses receive one course unit for 3 or 4 semester hour credits. Courses at the .600 and .700 levels are open to graduate students only.

21.099 Maintaining Matriculation (no credit)

The University requires students who have been admitted to graduate degree programs to register each year for the entire academic year until they complete their entire program. Accordingly, those who do not enroll in any courses or research seminars or apply for comprehensive examinations during the fall semester must register in the fall semester of each academic year under the designation .099 Maintaining Matriculation (no credit) and pay the required fee (nonrefundable). A subsequent spring or summer registration does not invalidate the necessity for registering in the fall semester.

21.510 Philosophy of Education (s 03.00)

Examination of the thought of leading philosophers on education: Plato, Dewey, etc., and of contemporary schools in philosophy of education such as existentialism and analytic philosophy.

21.511 History of education in Western Culture (s 03.00)

Consideration of educational ideas and institutions in Greco-Roman culture, the Christian middle ages, the Renaissance, and the Atlantic nations since 1789; with emphasis on intellectual, social, religious, economic, and political factors shaping educational development.

21.512 History of Education in the United States (s 03.00)

European inheritance in colonial education; development of American educational ideas and institutions during the nineteenth century, the progressive epoch, and post-progressive period; emphasis on intellectual, social, religious, economic, and political factors shaping American education.

21.513 History of Higher Education in the United States (s 03.00)

European universities in the middle ages, English reformation, and nineteenth century American colleges and universities beginning with Harvard College, but concentrating on the history of American higher education since 1869.

21.520 Advanced Psychology of Education (s 03.00)

Psychological principles and research having special relevance to education, including a consideration of motivation, attitudes, mental abilities, and the psychology of school subjects.

21.521 Mental Health in Schools (s 03.00)

Analysis of factors promoting mental health, consideration of application of mental health concepts to the educational setting.

21.522 Evaluation of Student Progress (s 03.00)

Selection, construction, administration, scoring, interpretation, and uses of standardized measuring instruments and informal teacher-made tests in evaluating student progress.

21.525 Educational Statistics I (s 03.00)

Descriptive statistics: organization and presentation of data, measures of central tendency and variability, product moment correlation; normal distribution: sampling errors, tests of significance. Basic sampling technique; hypothesis testing. Application of statistical methods to educational and psychological research.

21.530 The Teacher and Educational Administration (s 03.00)

Administrative duties and relations of the teacher with reference to guidance, curriculum and financial responsibilities, includes consideration of school work involving cooperation between or among teachers, supervisors and administrative officers. *Prerequisites:* 21.300 and 21.340 or 21.350, or the equivalents. For students *not* majoring in educational administration.

21.531 Introduction to School Administration (s 03.00)

Introduction to the profession; organization and administration of American education at the national, state and district school levels; emphasis on the school principalship.

21.541 Special Education for Exceptional Children (s 03.00)

Characteristics of exceptional children and of the problems in providing education programs to meet their needs. *Prerequisites:* 21.300, 21.320, and 21.340 or 21.350, or the equivalent.

21.542 Special Education for Retarded Pupils (s 03.00)

Class work and group activities for retarded children in public and private schools; emphasizes assessment, identification and program development. *Prerequisites:* 21.300, 21.320, and 21.340 or 21.350, or the equivalents.

21.543 Special Education for Gifted Pupils (s 03.00)

Class work, group, and individual activities for gifted children in elementary and secondary schools; emphasis on identification and program development. *Prerequisites:* 21.300, 21.320, and 21.340 or 21.350, or the equivalents.

21.551 Philosophy and Practices in Guidance (s 03.00)

Designed to give beginning students an overview of the fields of counseling, guidance, and psychotherapy. Students will have experience in interviewing skills; information on the basic theories of personality, psychotherapy, and counseling. Discussions on the roles and qualifications of counselors in various settings and levels of training. Issues of ethics and confidentiality will be reviewed. This course is a prerequisite to all other courses in the counseling program. *Prerequisites:* Graduate standing or permission of the instructor; one course in personality theory is recommended. Requirement: Use of a cassette recorder.

21.552 Analysis of the Individual for Counseling (s 03.00)

An overview of appraisal methods and how such methods relate to counseling. Attention given to the interpretation of test data with emphasis on intelligence and LLD measures. Students will also explore techniques of psychodiagnostic interviewing and mental status examinations. *Prerequisites:* 21.551 and graduate standing in education or psychology.

21.553 Techniques and Theories of Counseling in Education (s 03.00)

Counseling theories and techniques. Examination of contemporary theories of counseling, personality, and psychotherapy; discussion of techniques and issues in counseling; practice interviewing and counseling using specific techniques and methods. *Prerequisites:* 21.551 and 21.552. Graduate standing in education or psychology.

21.554 Vocational Analysis, Information, and Placement (s 03.00)

Administration and interpretation of vocational testing; methods and techniques of preparing and presenting occupational information; research and theories of vocational choice; theories and practices in placement. *Prerequisites:* Graduate standing in education or permission of the instructor.

21.561 Student Personnel Administration in Higher Education (s 03.00)

Philosophical, psychological, and sociological bases for student personnel administration. Emphasis on admission, orientation, counseling, judiciary functions, student activities, financial aids, housing, health services, career counseling and placement in student personnel services in higher education.

21.566 Seminar: Cultural Factors in Higher Education (s 03.00)

Study of the college student and his culture. Emphasis is placed on the assessment and evaluation of phenomena in a collegiate setting to gain insight into the cultural dynamics that bear on student development.

21.571 Foundations of Reading Instruction (s 03.00)

Broad considerations underlying the teaching of reading with special emphasis on reading disability and the problems of the retarded reader. *Prerequisite:* 21.300, 21.320, or equivalent.

21.572 Developmental Reading (s 03.00)

A course which considers reading as a developmental phenomenon. The course begins with the prelanguage experiences of infancy and considers each linguistic stage of human development as these developmental aspects are related to the reading process. The course inquires into basic causes for reading disability and the characteristics of each developmental stage of the reader from childhood to maturity of adulthood. *Prerequisite:* 21.571.

21.581 Physical Science for Elementary School Teachers (s 03.00)

Findings in physical science with special reference to science knowledge expected on the part of the elementary school teacher. Laboratory experiences provided.

21.582 Biological Science for Elementary School Teachers (s 03.00)

Findings in biology with special reference to science knowledge expected of elementary school teachers. Laboratory and field experiences provided.

21.583 Curriculum Construction (s 03.00)

Psychological, cultural, and educational bases of elementary and secondary school curriculum and higher education. Practice in construction of curricula materials. *Prerequisites:* 21.300, 21.320, and 21.340 or the equivalents.

21.587 Analysis of Classroom Teaching (s 03.00)

For administrators, supervisors, and classroom teachers. To acquaint the student with the research on teacher effectiveness and to provide a framework for the analysis of teaching styles and strategies. Each student will be encouraged to broaden his own repertoire of teaching behaviors as well as refine his perceptions of instructional interaction.

21.588 Clarifying Personal Values in Education (s 03.00)

An experiential course designed for the educator and others involved in the helping professions. Theory, experiences, and strategies which will help to clarify personal values. Focus will be on decision making, skills-finding alternatives from which to choose, and the consequences of the choice. Adaption of the clarifying processes to various educational environments.

21.590 Independent Reading Course in Education (s 01.00 through 06.00)

A course in which a student, by pre-arrangement with an instructor, reads a body of material with a minimum of formal instruction. See Independent Reading and Study Projects under General Curriculum Information.

21.622 Developmental Psychology (s 03.00)

Psychological, physiological, and sociological aspects of human development stressing applicability to the educator and the educative process.

21.623 Learning Theories in Education (s 03.00)

Study of classical and recent theories of learning. Selected research in human learning and principles of learning process. *Prerequisite:* 21.520.

21.624 Education and Modern Social Problems (s 03.00)

Introduction to educational sociology. Analysis of the relationships of schools and society, with emphasis upon modern social problems and their impact upon education. *Prerequisite:* Graduate standing.

21.625 Educational Statistics II (s 03.00)

Correlational procedures other than Pearson's sampling technique; significance tests; inference. Various ANOVA models. Underlying assumptions, rationale, and application to educational and psychological research. *Prerequisite:* 21:525 or equivalent.

21.631 School-Community Relations (s 03.00)

Covers all aspects of developing and maintaining successful relationships between the school administrator, staff, faculty, students, parents and community.

21.632 Problems in Educational Management (s 03.00)

Case study approach to the study of internal school management problems. Problem solving models employed in simulated and real situations.

21.633 Financial and Business Administration for Schools (s 03.00)

Principles and practices involved in financing public education at the federal, state and local levels. Taxes, bonds, budgets, purchasing systems, accounting systems, and other aspects of school business administration are covered. *Prerequisite:* 21.531 or equivalent.

21.634 Essentials of School Law (s 03.00)

Study of laws affecting education in the United States, with special reference to the District of Columbia, Maryland and Virginia.

21.635 Administrative and Organizational Theory in Education (s 03.00)

Review of historical and contemporary developments in administrative and organizational theory and research. A thorough multi-disciplinary exploration of the literature in leader and organizational behavior and effectiveness.

21.636 Administrative Processes in Education (s 03.00)

Study of administrative processes with emphasis on organizing, planning, decision-making, communication, delegation, and evaluation. Applications of systems theory, model building simulation, MBO, PPBS, PERT, CPM, OR, OD and other management tools in education at all levels.

21.637 School Personnel Administration (s 03.00)

Development of school personnel policies, needs assessment, recruitment, selection, hiring, placement, classification, certification, contracts, tenure, separation, salary schedules, personnel welfare, staff development, and union relations.

21.638 School Facilities Planning (s 03.00)

The principles and procedures involved in relating educational philosophies, objectives, curriculum, resources, and projected pupil population to the development of physical facilities. Techniques for needs assessment, development of educational specifications, site selection, finance, and evaluation. Roles of administrators, teachers, consultants, architect, board and community.

21.639 Administration of Educational Media (s 03.00)

Assists college and school administrators in acquiring knowledge and skills involved in the planning, financing, supervising, staffing and equipping of educational media services at all levels.

21.644 Diagnosis and Correction of Learning Disabilities (s 03.00)

Diagnosing general and specific learning disabilities. Developmental and remedial techniques for correction of learning disabilities. Clinical experience. *Prerequisites:* 21.520, 21.525 and permission of instructor.

21.645 Learning Disabilities I (s 03.00)

A seminar to examine neurological and developmental aspects of learning disabilities with training and practical experiences in administering the Illinois Test of Psycholinguistic Abilities, and others. *Prerequisite:* permission of instructor.

21.646 Learning Disabilities II (s 03.00)

A seminar to develop diagnostic capabilities in order to select and design materials and programs for learning-disabled children and youth. *Prerequisite:* 21.645.

21.650 Psychopathology I (s 03.00)

Overview of counseling, psychotherapy, and psychopathology from a neo-analytic framework. Issues will center around the etiology, psychopathology, symptomology, and remediation of disordered behavior. *Prerequisites:* Doctoral standing in counseling or clinical psychology; a course in personality theory and psychotherapy; permission of the instructor.

21.655 Group Counseling and Guidance (s 03.00)

Emphasizes both an experiential, T-group approach to group counseling as well as structured behavioral interventions in a group setting. Group process issues and personal growth techniques are explored in an atmosphere in which the group accepts responsibility for itself. Various behavioral group models are demonstrated. *Prerequisites:* 21.551, 21.553, and admission to the graduate degree program in counseling or by permission of the instructor.

21.656 Seminar: Psychological Evaluation (s 03.00)

This course deals with the advanced clinical interpretation of selected psycho-diagnostic instruments. Students are expected to be familiar with the administration, scoring, and basic interpretation of the WAIS/WISC and Rorschach in addition to the other clinical psycho-diagnostic instruments. Students will present test protocols to discuss the finer aspects of advanced clinical interpretation and how these data are used in the counseling relationship. *Prerequisites:* 21.552, 57.560, and 57.630 or the equivalents, doctoral standing in counselor education or clinical psychology, and permission of the instructor.

21.657 Supervision of Counseling (s 03.00 through 06.00)

A comparison of various theoretical models underlying supervision. Students become directly involved in supervising paraprofessionals and master degree students as they develop their own skills. *Prerequisites:* 21.659, admission into the doctoral program in counseling and permission of the instructor.

21.658 Family Systems and Family Therapy (s 03.00)

The family is conceptualized as a system. Particular emphasis is placed on the interaction pattern between family members, family crises, diagnosis, and family treatment theories and

interventions. Particular emphasis is placed on Conjoint and Multiple impact Therapy approaches as well as other interdisciplinary and ecological systems of family therapy. *Prerequisites:* 21.551, 21.553, doctoral standing in counseling or psychology, permission of the instructor. A course in group counseling is recommended.

21.659 Practicum in Counseling (s 03.00 through 06.00)

(*Master Degree Students*): 250 hours per three credits.

Students are encouraged (not required) to take the course for 6 credits. Students are placed in schools or community agencies, depending on individual's needs and experiences, for approximately 3 and ½ days per week and return to the University for a half day seminar. Systematic development of counseling skills and practical experiences are emphasized. Students must make application for the Fall semester practicum by July 15 and for the Spring semester by November 15. *Prerequisites:* Counseling core courses and permission of the instructor.

(*Doctoral Degree Students*):

A limited semester sequential experience (Fall then Spring) limited to doctoral students. Practicum provides opportunities to observe and participate in many of the University Counseling Center's activities. Systematic training using the Ivey-Carkhuff model as well as training in behavioral and analytic techniques. Students must make application for the Fall semester practicum by July 15. *Prerequisites:* Counseling core courses, doctoral standing, and permission of the instructor.

21.662 Organization and Administration of Guidance Services (s 03.00)

Principles, procedures, and practices in organization and administration of guidance services. Special attention to selecting staff, in-service training of staff, organizational patterns, ways of initiating a guidance program, and means of evaluating the program.

21.663 The Community College (s 03.00)

The community college in the United States. Attention focused on organizational patterns, diversity of function, student and faculty, and current problems of the two-year institution.

21.664 Principles of College Teaching (s 03.00)

A study of teaching on the college level. Emphasis on the teaching process, the college teacher, the college student, teaching styles, research, instructional technology and micro-teaching sessions. *Prerequisite:* Permission of instructor.

21.665 Organization and Administration in Higher Education (s 03.00)

Theory and practice of organization and administration in higher education. Emphasis on management and leadership, academic affairs, planning techniques, accountability, collective bargaining, legal aspects, business and financial administration, and accounting and reporting in administration in higher education. *Prerequisite:* Permission of the instructor.

21.673 The Diagnosis of Reading Disability (s 03.00)

Diagnosing causes of reading disability and prescribing proper treatment. Practicum work with children who exhibit reading disability. *Prerequisites:* 21.520, 21.571, 21.572, and permission of instructor.

21.682 School Supervision (s 03.00)

For prospective and in-service supervisors for elementary and secondary schools. Purposes, principles, and techniques of supervision. *Prerequisites:* Qualification for a teacher's certificate and/or teaching experience.

21.683 Supervision of Student Teachers (s 03.00)

Guidance for supervising teachers and others in work with student teachers. Purposes, principles, and techniques of supervision. *Prerequisites:* Qualification for a teacher's certificate and/or teaching experience.

21.690 Independent Study Project in Education (s 01.00 through 06.00)

A course in which a student does research on a topic agreed upon by the student and the instructor. See Independent Reading Courses and Study Projects under General Curriculum Information.

21.710 Seminar in Teaching (s 03.00)

To operate as a cycle stressing, from semester to semester, the following areas: curriculum construction, public relations, school administration and supervision, educational research, and methods and materials of teaching. May be repeated for credit. *Prerequisite:* permission.

21.765 Seminar in Student Personnel Administration in Higher Education (s 03.00)

Critique of issues and problems in contemporary programs of student personnel administration. *Prerequisite:* permission of the instructor.

21.769 Internship in Student Personnel Services in Higher Education (s 03.00 through 06.00)

For advanced students in student personnel services in higher education. Students are assigned to an area or areas of a program of student personnel services for exploratory administrative case and research experience. *Prerequisites:* 21.561, 21.765, and permission.

21.790 Educational Research (s 03.00)

Fundamentals, methodology, and materials for educational research. Required of all students. *Prerequisites:* 21.525 or equivalent, and admission to a graduate degree program in education.

21.791 Research Seminar in Education (s 03.00)

A seminar-type course in which a comprehensive research paper is required. Designed especially for M.Ed. candidates. A letter grade of "B" or better is required to receive credit for this course. *Prerequisite:* 21.790.

21.792 In-Service Training Project: Internship in Education (s 03.00 through 12.00)

Internships in cooperating local school systems as integral part of degree programs in areas such as administration, reading, special education, emotional disturbance, and teaching. *Prerequisite:* permission of advisor.

21.797 Master's Thesis Seminar (s 03.00 through 06.00)

At least three hours required of all students working on a master's thesis. *Prerequisite:* 21.790. Sign with the department secretary.

21.799 Doctoral Dissertation Seminar (A, B, and C) (s 12.00)

A total of 12 semester hours are required of all students working on doctoral dissertations. The first three hours, to be known as "21.799-A," concentrates on research design; the second three hours, to be known as "21.799-B," to be taken subsequent to 21.799-A, enables the student to perfect his dissertation proposal; the last six hours, to be known as "21.799-C," to be taken subsequent to 21.799-B, are devoted to independent work on the dissertation with the student's dissertation committee. *Prerequisite* to the 21.799 sequence is 21.790 or its equivalent and advancement to candidacy.

INSTITUTES**31.565 Institute: Counseling the Disadvantaged (s 03.00)**

Eight-week workshop dealing with the issues and problems involved in counseling disadvantaged youth. Lectures, small group discussions, field trips and panel presentations. Designed for teachers, in-service counselors, counselor trainees and local, state, and federal employees involved in counseling disadvantaged youth.

31.631 Institute on Reading and Learning Disabilities (s 03.00)

Guided experiences in remedial reading; diagnosis and correction of learning disabilities with children and youth. To be taken in conjunction with 21.673 and 21.644, thus providing students with work toward meeting requirements for teachers of special education, reading specialists, psychologists, counselors and classroom teachers. See *Institutes*.

American University/District of Columbia Area Mental Health Teacher Training Program

Prerequisite: Open only to full-time graduate students accepted and enrolled in The American University-District of Columbia Area A Public School-HEW, Office of Education experimental training project.

21.501 Language Arts and Social Studies Curricula in Special Education (s 02.00)

This course examines the relationship between the teacher and his curriculum, and the learner and his need system. The first semester concentrates on language arts and social studies including the following aspects: recognition of the teaching of reading as a crucial educational responsibility, insight into the reading process in relation to principles of learning and child development, materials and techniques for specific learning outcomes, the role of language in the child's life and the interrelationships among various phases of language arts. Practicum experience includes teaching a curriculum under video tape supervision.

21.502 Methods of Managing Inappropriate Classroom Behavior (s 02.00)

This course will cover psychoeducational methods of understanding and managing inappropriate classroom behavior. Techniques such as groups, problem solving, role playing, and video tape analysis of behavior will be used. Restricted to Special Education majors.

21.503 Theories and Practices in Special Education (s 02.00)

This course will cover the following theories and methods of re-educating emotionally disturbed children such as Psychodynamic, Behavioral, Psychoeducational, Educational, and Ecological models. Case conferences, guest lectures, group discussion and video tape analysis will be used as teaching techniques. Restricted to Special Education Majors.

21.504 Methods of Psycho-Educational Assessment (s 02.00)

Designed to develop an appreciation of the assessment process by which one attempts to understand the meaning of a child's behavior. The course examines critical issues and concepts in measurement of behavior, data interpretation, psychoeducational programming and follow-up evaluation. Practicum experiences include observation and participation in classroom activities, group and individual testing, and psycho-educational case conferences.

21.505 Methods of Studying Group Behavior in Special Education I (s 02.00)

Designed along the lines of a process group. Under the careful direction of a trained group specialist, the trainees have an opportunity to explore interpersonal and intrapersonal communications and understand how groups function. These experiences are related to the role of a classroom teacher in special education.

21.506 Mathematics and Science Curricula in Special Education (s 02.00)

This course covers basic material in math and science through readings, demonstrations, educational games and laboratory exercises. All material developed is implemented into the trainees' classroom. Practicum experience includes videotaping of classroom lessons.

21.507 Theories of Child Development (s 02.00)

Reviews basic theories of child development including psychoanalytic, social learning and cognitive developmental theories. The course focuses on such concepts as critical periods, stage and phase development, primary and secondary drives and reinforcement, hierarchy of motivational needs, defense mechanisms, developmental lines and selfmastery. Material on early childhood differences in constitution, personality and rearing practices are covered and related to the students in the trainees' classroom.

21.508 Theories and Methods of Urban Education Curriculum (s 02.00)

The format of this course involves the procedures, dynamics and content of inner city education—and the way in which this system effects exceptional children who have emotional disturbances. The process of employing this curriculum is implemented through theory and the application of methods through practicum experience.

21.509 Methods of Remediation in Special Education (s 02.00)

Reviews remedial principles of teaching children with learning problems. The seminar covers basic phonetic approaches, construction and administration of informal reading and developmental skill inventories, and teaching programs for skill development. Practicum experience includes individual and group observation and teaching, lesson planning, supervisory conferences, developing teaching resource file, and during the second semester, tutoring three times per week.

21.605 Methods of Studying Group Behavior in Special Education II (s 02.00)

Continues to provide the trainees with an opportunity to explore the techniques of interpersonal and intrapersonal group communication and understanding. Continued efforts are made to relate these explorations to the psychological role of teaching.

History

Correspondence Director: David J. Brandenburg, *Chairman*

United States history, European history, British history, Latin American history, Russian history, archives administration. (For specific fields available for the M.A. and the Ph.D., consult the department.)

Full-time Faculty

Professor: Carl G. Anthon, Robert L. Beisner, David J. Brandenburg, Roger H. Brown, Harold E. Davis (University Professor Emeritus), Dorothy D. Gondos (Professor Emeritus), Jean T. Joughin, Ernst Posner (Professor Emeritus).

Associate Professor: Thomas V. DiBacco, Elizabeth Eisenstein, Ira N. Klein, Charles C. McLaughlin.

Assistant Professor: Valerie Allen, Margaret Child, James Malloy, Albro Martin, Terence R. Murphy, Alan Lichtman

Undergraduate Degrees

Bachelor of Arts and Bachelor of Science

To receive the Bachelor of Arts degree in history a student should take no more than half his courses (16 courses) in history and related fields. A University regulation stipulates that a student who takes more than half his courses in his major subject will receive the Bachelor of Science degree.

Composition and Reading Requirement—See Undergraduate Degree requirements under General Academic Regulations.

Language Requirement—See Undergraduate Degree section under the College of Arts and Sciences.

Prospective joint or interdisciplinary majors should see the chairman of the Undergraduate Committee.

Departmental Requirements

MAJOR COURSES: 10 courses, grades of C or better.

- (a) One course in Ancient World or Medieval History required (unless Western Civilization I is transferred from another school).
- (b) One course in the history of an area outside of Western Europe and the United States, for example: Africa, Asia, Eastern Europe, the Near East, Latin America, and Russia. NOTE: This requirement will go into force on Monday, May 6, 1974 and will be applied to all students who file a Declaration of Major on or after that date.
- (c) Historiography required. Historiography is taught as a seminar in selected phases of the history of historical writing in the United States, Europe and other areas.
- (d) Major Seminar required.

NOTE: —May not be taken during the same semester as that in which the student practice teaches.
 —Should not be taken in the last semester before graduation.
 —Should be taken after Historiography.

The Department encourages breadth in historical study and discourages specialization at the undergraduate level. Ideally, history majors should study the history of at least three major geographical regions.

RELATED COURSES:

Four courses other than history, xx.300 level or above (from the humanities, social sciences, and/or natural sciences) selected in consultation with a departmental advisor. These courses may be concentrated in one discipline, as a minor field, or may be distributed.

TRANSFERRED COURSES:

At the discretion of the Department, transfer students presenting history transfer credit in units of three semester hours are usually credited with one course for each three semester hours in history transferred. Students presenting history transfer credits from the quarter system will usually be credited with one course for each two quarter system courses. For courses to be accepted as related courses, they must be above the introductory level.

To receive the bachelors degree in history, students must take at least five history courses at The American University.

History majors are reminded that grades of D are not acceptable for the major or for the related field.

Departmental Honors

Departmental honors in history shall be awarded to students who:

- (a) Complete requirements for the B.A. or B.S. in history with an average of 3.2 overall and 3.5 (on a four point scale) in history, *AND*
- (b) Write a research paper or papers of exceptional quality in the Major Seminar. Nomination for honors shall be made by the instructor of the Major Seminar in which the student writes his research paper or papers. Such nominations must be approved by the Department Chairman.

Honorary Fraternity

Epsilon Psi Chapter of Phi Alpha Theta, an international fraternity for those excelling in history, was established on campus in 1956. Students with three courses in history, B average overall and B+ average in history are eligible. See officers for information.

Three Year M.A. Program in History

The three-year M.A. program in history is designed for highly motivated and able students with a view toward expediting their progress toward the M.A. in history. Consideration of this program will be given to undergraduate history majors with junior standing whose academic performance has been exceptional. The students should be able to complete the M.A. within one academic year after completion of the baccalaureate degree.

Students will be admitted formally to the M.A. status only if they have completed all requirements for the B.A. or B.S. with strong grades (3.0 overall and a 3.2 in history) and a solid performance in the Major Seminar, to be taken in the first semester of the senior year. Students in the three year program should apply for admission to the M.A. program early in the second semester of the senior year. Those students moving to M.A. standing will be exempt from the normal requirement for GRE's.

In their junior or senior years, students admitted to the three-year M.A. program should expect to take two courses or four half-courses—*independent study projects*—at the graduate level over and above their usual four course load. Thus by the time of the award of the B.A. or B.S., the student will have as many as six hours toward the M.A. and should be able to complete the M.A. in one academic year after completion of the B.A. or B.S. An alternate or supplemental approach would be to take courses for graduate credit, with special permission, during the summer session after the junior year. All graduate level credits over and above those needed for the bachelor's degree requirements will be credited toward the master's degree, once the student is formally admitted to the M.A. program.

During the third year of this program, the student should complete all requirements for either the one-field or the two-field M.A. Two of the courses taken during this third year may be for P credit.

The same language requirement applies as for the student admitted directly to M.A. status. The three-year M.A. student, however, would find it desirable to come into the program with the language requirement already fulfilled.

Graduate Degrees

Master of Arts and Doctor of Philosophy

The Department of History awards the Master of Arts in History and the Doctor of Philosophy in History.

Subject Areas of Concentration

The department of History offers graduate work leading to the M.A. and Ph.D. degrees in the following subject areas: history of modern Western Europe (since the 15th century); United States history (including colonial); British history; Russian history; South Asian history; Latin American history; Ancient history; and Medieval history. These subject-areas represent the strengths of existing department faculty. Graduate work in these subject areas may be taken at both the M.A. and Ph.D. levels, but at the Ph.D. level, Latin American history, Ancient history, Medieval history and British history are available only as second and third fields, not for concentration or the dissertation. At the M.A. level, Medieval history is not available as a comprehensive examination field, but may be taken as a second field under Plan II described below.

In addition to faculty resources and courses provided by the department, students are encouraged to make use of faculty resources and courses in other teaching units of the University and in Washington area universities which belong to the D.C. Consortium of Universities (Catholic University of America, Georgetown University, George Washington University and Howard University).

Fields and Comprehensive Examinations

For the M.A. degree, a candidate plans a program based on one or two fields. Plan I (one field) concentrates the candidate's work in a single field of history. Plan II (two fields) provides for work in two fields of history, or a field in history and a related field. In both cases, one historical field shall be examined by written comprehensive examination. In Plan II, the second field is completed through 12 hours of courses taken for letter grade credit.

For the Ph.D. degree, a candidate plans a program based on four fields. The candidate's mastery of these fields shall be tested by three written comprehensive examinations and one oral comprehensive examination; the oral normally covering the field in which the candidate plans to write the dissertation. At least one field must be from among the following: a historical field outside the main subject area of concentration either chronologically or geographically; a comparative or cross-disciplinary field; or a field in another discipline. Upon the advisor's recommendation and the approval of the department's Graduate Committee, one field may be the M.A. examination taken at The American University. In a case where a candidate has passed a comparable examination elsewhere, he may take this examination in oral form early in the first year with the assurance that an unsatisfactory performance will not prejudice his record or the opportunity to take a written examination subsequently in the same field.

In case of failure, any re-examination is subject to the discretion of the department.

Upon the recommendation of the advisor and the Graduate Committee, a candidate whose background in history is excessively narrow or parochial may be required to plan a program which includes an outside historical field.

Program Planning

A candidate beginning graduate work in history plans a program of concentration within a particular subject area to suit his individual background and career plans. A program of concentration may be constructed only in a subject area for which there is existing department faculty strength; a candidate may not, as a matter of right, expect to design a program of concentration in a subject area for which there is not supporting department faculty. Such a program may, however, include fields, course-offerings, and comprehensive examinations in other departments and schools at The American University and in the D.C. Consortium of Universities.

In consultation with a faculty advisor and with the approval of the department's Graduate Committee, both M.A. and Ph.D. candidates design fields such as the following:

- (a) Broad chronological or topical fields emphasizing comprehensiveness (e.g., Europe since 1500; U.S. since 1607; Latin America since Independence; Greek and Roman History; British Isles since 1485; Russia since 1462; South Asia since the Moghuls).
- (b) Fields defined in a more restricted manner, whether as to theme or chronology,

emphasizing depth (e.g., U.S. since the Civil War; France: The Third Republic; The Ancien Regime; Reformation Europe; Russian Intellectual History; The French Revolution; Tudor-Stuart England; European Diplomacy since 1815; Germany since Bismarck; Republican Rome; Nineteenth-century South Asia; Colonial Latin America; U.S. Expansion; History and Administration of Archives).

- (c) Comparative or cross-disciplinary fields emphasizing varying degrees of breadth and depth (e.g., Modern European Revolutions; Liberalism and Totalitarianism in Twentieth-century Europe and Russia; British and American Imperialism in Asia; Social Structure and Social Change in Modern South Asia; Quantitative History of Modern U.S. Elections; Diplomacy in Antiquity).
- (d) Fields in other disciplines related to the candidate's subject-area of concentration (e.g., Economic Growth and Development; Political Sociology; Ancient Archaeology; History and Development of South Asian Religions; Nineteenth-century American Literature; International Relations of Latin America; International Relations and Politics of the Soviet Union).

The department faculty believes that a sound graduate education in history generally requires the study of broad fields and periods as a necessary base for more specialized study.

Each candidate shall prepare a statement describing in detail the field or fields he wishes to study. Such a statement shall include a careful definition of the field and its specific subject matter; a description of the formal and informal methods by which the candidate expects to prepare himself; and the names of the faculty members from the department, University and Consortium who have agreed to test the candidate's knowledge of the field. This statement shall then be agreed to in writing by the candidate's advisor and the appropriate examining faculty, approved by the department Graduate Committee and filed in the department office. Fields that are judged trivial or excessively narrow by the advisor and/or the Graduate Committee will not be approved.

Semester Hours

For the Master's degree, 30 hours of approved graduate course work. For the Doctor's degree, 42 hours of approved graduate course work beyond the 30 hours taken for the M.A. including 12-24 hours of dissertation seminar. With the exception noted below (research seminar and colloquia requirements), these courses may be taken, upon advisor's recommendation, for P credit.

Research Seminars

For the M.A. degree, two research seminars (6 hours) shall be taken for letter grade credit. For the Ph.D., two research seminars (6 hours) shall be taken for letter grade credit. For the Ph.D. degree, one of the seminars shall be devoted to developing a dissertation topic. Substantial papers shall be required in all seminars; for credit towards the degree, a letter grade of B or better on the research paper is required.

If desired by the candidate, or prescribed by the advisor, a candidate for the M.A. may write a thesis in lieu of two substantial research papers. It is expected that a thesis will be written only if the candidate has either a strong and focused research interest, or, in the view of those who work with him, needs to experience the larger discipline of a major research and writing effort.

Colloquia

(Discussion group courses which deal with important interpretations and bibliography in a given subject area.) For the M.A. degree, two colloquia, or, upon advisor's advice, suitable substitutes (6 hours), taken for letter grade credit. For the Ph.D. degree, one colloquium, or, upon the advisor's advice, a suitable substitute (3 hours) taken for letter-grade credit. A colloquium offered as a double credit course (6 hours) will satisfy the two-colloquium requirement.

Admission

Admission to the M.A. program is at the discretion of the department's Graduate Committee, within the framework of University and College of Arts and Sciences standards. In general, a 3.2 average in the undergraduate major and a 3.0 overall average (on a 4-point basis) are required. Other uniform requirements are (1) evidence of at least a substantial beginning in one foreign language, (2) results of Graduate Record Examinations (Verbal, Quantitative and Advanced Test in major subject), and (3) letters of recommendation from two professors with whom work was taken recently.

In addition to the above credentials, an undergraduate major in history is desirable, although majors in related fields will be given consideration. Candidates seeking admission to the Plan II M.A. program must present evidence of having had undergraduate course work that gave at least general coverage of one of the fields which the student wishes to incorporate in his degree program. The demands of a two-field M.A. are such that it is unlikely that a student can make initial acquaintance with the subject-matter of the M.A. fields during the period of master's study and meet satisfactorily the requirements of the degree.

Admission to the M.A. program usually is for the fall semester (especially for full-time students). Entry into a graduate program in the spring semester—while possible in some cases—makes for scheduling and time-table difficulties. No graduate degree in history at The American University can be earned in summer sessions alone.

Provisional admission may be extended in certain cases where the above standards are not fully met. In order to gain full M.A. candidate status, the student admitted provisionally must demonstrate to the satisfaction of the department an ability to pursue a degree program with reasonable promise of success. Upon completion of 12 credit-hours of courses taken for letter-grade credit, he must then apply for full admission.

Admission to or completion of the M.A. program does not insure admission to the Ph.D. program.

Admission to the Ph.D. program is at the discretion of the department Graduate Committee and is contingent upon the student's having an M.A. degree or its equivalent in history or in a related field with strength shown in history on either the undergraduate or graduate level. Other admission requirements: evidence of at least a substantial beginning in one foreign language; Graduate Record Examination results; and letters of recommendation from two professors with whom work was taken recently. In general, admission is for fall (especially for full-time students). Entry into a graduate program in the spring semester—while possible in some cases—makes for scheduling and time-table difficulties. No graduate degree in history at The American University can be earned in summer sessions alone.

Provisional admission may be extended in certain cases and the same requirements as for the M.A. provisional admission apply for the Ph.D.

Time-Table

Full-time M.A. students should plan to finish the degree in one calendar year from the time of entry into the program, part-time students in no more than three calendar years.

All candidates will satisfy the foreign language requirement as early in their graduate careers as possible. It is expected by the department that candidates for the M.A. will have met this requirement before coming to comprehensive examination. Exceptions will be made only in case of extreme hardship.

As University regulations require, Ph.D. students must finish all requirements for the Ph.D. within five calendar years after entering the Ph.D. program. It is the desire of the department, however, that students should complete all requirements with as little delay as possible, with a time-table of three years as an optimum. Full-time Ph.D. students should plan to complete all course, language, and comprehensive examination requirements by the end of the second academic year after entry into the Ph.D. program. All graduate students must be registered continuously, except in summers.

All Ph.D. candidates should satisfy their tool-of-research requirements before taking comprehensive examinations in their second, third and fourth fields.

Languages

For M.A. candidates, an intermediate-level background in one foreign language is required. Candidates for the M.A. who have completed with the grade of C or better the second semester of an intermediate-level college course in one language (2nd year college level) or its equivalent within the five years preceding admission shall be regarded as having satisfied the foreign language background requirement for the M.A. The language shall be from the following: German, French, Russian or Spanish. Upon the advisor's advice and the approval of the department's Graduate Committee, a different language may be substituted. If a candidate cannot meet the background requirement as stated above, the language requirement may be met in one of the following ways:

- (a) A candidate who possesses native or near-native fluency in one or more foreign language will, with his advisor's consent and the approval of the department, be considered to have satisfied the background requirement in the language in which he is fluent.

- (b) A candidate may meet the background requirement by successfully completing one or more of the non-credit reduced fee foreign language reading courses offered by the Department of Languages and Foreign Studies. Since a first-year college course or its equivalent is required for admission to these courses, candidates are advised to undertake suitable preliminary preparation in consultation with the Department of Languages and Foreign Studies in order to qualify.
- (c) A candidate may meet the background requirement by passing the intermediate level foreign language proficiency examination administered by the Department of Language and Foreign Studies.

Ph.D. candidates must satisfy two tool of research requirements. Normally these will be two foreign languages, at least one of which must be met by passing a tool of research examination. The second language requirement may be met through a recent satisfactory background experience in the language, consisting of, or equivalent to, an intermediate level college language course. When deemed appropriate and approved by the student's advisor and the departmental Graduate Committee, a student may substitute quantitative techniques or statistics for the second language requirement. The Graduate Committee will stipulate the mode of meeting this requirement.

NOTE: The ability to carry on research in a foreign language may be required for admission to a graduate research seminar at the discretion of the instructor.

Grade Point Average

The minimum cumulative grade point average required to maintain good standing in the M.A. and Ph.D. program is B (3.00).

Doctoral Dissertation and Oral Defense

Ph.D. candidates must complete a doctoral dissertation and defend it in oral examination.

Courses of Instruction

Undergraduate level course values are expressed as *course units* according to the following decimal notations: (c 00.25) = ¼ course unit; (c 00.50) = ½ course unit; (c 00.75) = ¾ course unit; (c 01.00) = 1 course unit; (c 01.50) = 1½ course units; etc.

Graduate level course values are expressed as *semester credit hours* according to the following decimal notations: (s 01.00) = 1 semester hour; (s 02.00) = 2 semester hours; (s 03.00) = 3 semester hours; etc. There are no fractional semester credit hours.

Undergraduate Courses

29.100 Historians and the Living Past (c 01.00)

Is history bunk? Or are those ignorant of the past condemned to repeat its mistakes? This course inquires into man's attempt to understand his past; how contemporary life is influenced by our understanding of the past; the personal and societal values of historical study.

29.200 Undergraduate Seminar (c 01.00)

Research on group basis in selected historical topics. Topics announced in semester bulletins.

29.201 The Ancient World: The Ancient Near East (c 01.00)

Sumer, Akkad, Babylonia, Egypt, Israel, Assyria, Persia.

29.202 The Ancient World: Greece (c 01.00)

29.203 The Ancient World: Rome (c 01.00)

29.204 Medieval Europe (c 01.00)

Topics in medieval political, social, religious and economic history.

29.205 Modern Europe I (c 01.00)

How the ground was laid for Eurocentrism. The revolutions in religion, geography, and science. Society and politics in the emerging modern state. European expansion—the first phase. Enlightenment and Reason—and Unreason: the Age of the French Revolution and Napoleon.

29.206 Modern Europe II (c 01.00)

Conservative reaction and resurgent nationalism. Liberalism, industrialism, socialism, and the middle-class conquest. Rampant technology, the retreat from reason, and world-war insanity. Decline of the nation-state. Shrunken Europe and third-world tensions.

29.207 History of the United States I (c 01.00)

Survey course giving a comprehensive history of our country from colonial times to the Civil War.

29.208 History of the United States II (c 01.00)

Survey course giving a comprehensive history of our country from the Civil War to the present.

29.221 History of England I (c 01.00)

Political, economic, social and cultural life in England to 1689. Origins and development of constitutional government. Beginnings of empire.

29.222 History of England II (c 01.00)

Great Britain and the British Empire since 1689. Evolution of constitutional government, economic growth and social reform, expansion of empire, and the commonwealth since World War II.

29.231 The Emergence of Modern Russia, 1462–1881 (c 01.00)

Survey course on Russian history with emphasis on autocracy, fate of the peasantry, economic and cultural developments, and the period of modernization.

29.232 Revolutionary and Soviet Russia, 1881–1964 (c 01.00)

Focus on the revolutionary movement, the rise of industrialization, the Revolution of 1917, and internal political, social and economic development of Soviet Russia.

29.241 Colonial Latin America (c 01.00)

Conquest and change in Indian civilization; imperial politics; race and class; Indian labor and the Black legend; imperial economic relations; imperial reform and revolution.

29.242 Latin America since Independence (c 01.00)

Problems in creating nations; militarism, dictatorship and democracy; the sources of underdevelopment; reform and revolution in the 20th century.

29.250 Modern Asia (c 01.00)

The history and culture of the great Asian civilizations during the past two centuries. Analyzes Asian societies at the time of the advent of the West in Asia and the Western impact, cultural and social change, the rise of Asian nationalism, recent revolutions, politics and international relations. To be offered occasionally, as faculty are available.

29.260 Comparative Studies (c 01.00)

Broad and comparative studies of major themes in history and society; interdisciplinary in orientation or dealing historically with questions of significance in the social sciences, humanities, or modern life. Consult semester bulletins for possible offerings under this rubric each semester.

300-LEVEL RUBRICS (29.300 through 29.321).

These may be taken more than once with permission of the Department.

29.300 Ancient Studies (c 01.00)

Topical and chronological courses in ancient history. Examples of courses offered are: (1) Greece in the Age of Tyrants; (2) Greek Oligarchy—The Spartan and Corinthian Experience; (3) Classical Greece; (4) Greece in the Fourth Century; (5) Major Greek Historians; (6) The Roman Republic; (7) The Roman Empire; (8) Major Roman Historians; (9) Historiography of the Comparative Causes of War in Antiquity. Consult the semester bulletin for specific courses offered each semester.

29.310 Change and Revolution in Europe (c 01.00)

Topical and chronological courses in Modern European history from the fifteenth century to

the present. Examples of courses offered under this rubric: (1) Renaissance Civilization; (2) Reformation History; (3) The Crisis of the 17th Century; (4) The French Revolution; (5) 19th-century Revolutions; (6) the Impact of Industrialization on European Society. Consult the semester bulletin for specific courses offered each semester.

29.311 European National Development (c 01.00)

Topical and chronological courses in European history stressing national developments. Examples of courses that could be offered: (1) Modern France; (2) Germany from Bismarck to Brandt; (3) Nazi Germany; (4) Eastern Europe in the Age of Nationalism. Consult the semester bulletin for specific courses offered each semester.

29.312 European Thought, Politics and Society (c 01.00)

Topical and chronological courses in European intellectual, political, and socio-economic history. Examples of courses offered under this rubric: (1) Early Modern Intellectual History; (2) Modern Intellectual History; (3) The Ancien Regime; (4) Modern European Economic and Social History; (5) The Americanization of Europe; (6) Diplomacy, War and Social Change: Napoleon to Hitler. Consult the semester bulletin for specific courses offered each semester.

29.313 British Studies (c 01.00)

Topical and chronological courses in British history. Examples of courses offered under this rubric include: (1) The Tudors—personality and kingship; (2) The Century of Revolution—an explanation of the revolutions of the 1640's and 1688–89; (3) The Anatomy of Reform from the Late 18th Century to the Present; (4) Ireland from the Flight of the Earls; (5) The Origins of Modern British Society; (6) The Party System; (7) Individual Liberty—law, morality and personal freedom from the middle ages to the Wolfenden Committee Report; (8) The Community of the Shire; (9) Popular Reaction of Economic and Social Change—Robin Hood and Wat Tyler to Ned Ludd and Captain Swing. Consult the semester bulletin for specific courses offered.

29.315 Latin American Studies (c 01.00)

Topical and chronological courses in Latin American history. Examples of courses offered under this rubric: (1) Diplomatic History of Latin America; (2) Intellectual History; (3) Comparative History of the Americas; (4) Imperialism and Dependency in Historical Perspective; (5) Twentieth Century Revolutions in Mexico and the Caribbean; (6) Change and Revolution in Spanish South America; (7) History of the Foreign Policies of Argentina, Brazil, Chile and Mexico in the Twentieth Century. Consult the semester bulletin for specific courses offered each semester.

29.316 Russian Studies (c 01.00)

Topical and chronological courses in Russian history. Examples of courses offered under this rubric: (1) Autocracy and Modernization, 1861–1905; (2) Russia on the Eve of Revolution, 1905–1917; (3) Russia and the West; (4) The Peasantry in Russia; (5) Intellectual History; (6) The Growth of Autocracy; (7) Soviet Politics and Culture. Consult the semester bulletin for specific courses offered each semester.

29.317 Asian Studies (c 01.00)

Topical and chronological courses in Asian history. Examples of courses offered under this rubric: (1) Modern Japanese History; (2) Topics in Indian History; (3) Chinese History (faculty available). Consult the semester bulletin for specific courses offered each semester.

29.318 Contemporary Studies (c 01.00)

Social and political studies on a historical basis that deal directly with contemporary life and society, or with themes in 20th century history that have contemporary importance. Examples of topics to be dealt with under this rubric: Totalitarianism, Racism, Imperialism, Democracy, Modernization, Psycho-history and Environmentalism. Also general courses in recent European history. Consult the semester bulletin for specific courses offered each semester.

29.319 Growth and Process in American History (c 01.00)

Topical and chronological courses stressing the developmental aspects of American history and the historical profession. Examples of courses offered under this rubric: (1) Colonial History; (2) 19th Century History; (3) Recent History; (4) Diplomatic History; (5) Economic History; (6) Quantification in History. Consult the semester bulletin for specific courses offered each semester.

29.320 Conflict and Crisis in American History (c 01.00)

Topical and chronological courses with focus on turning points in American history. Examples of courses offered under this rubric: (1) The Revolution; (2) Civil War and Reconstruction; (3) Industrialization; (4) Urbanization; (5) Populism; (6) The World Wars. Consult the semester bulletin for specific courses offered each semester.

29.321 Comparative Approach in United States History (c 01.00)

Contrast and comparison of social, political, economic and diplomatic history of the United States with that of other nations, as for example, slavery in the Americas. Contrast and comparison of regions, institutions, and ideas within the United States. Consult the semester bulletin for specific courses offered each semester.

300-LEVEL COURSES OFFERED REGULARLY BY THE DEPARTMENT**29.322 History of India I (c 01.00)**

A broad survey, by topics, not chronological, of Indian civilization through the period of Moghul rule, ending in the 18th century. Discussions center on such themes as kingship, social organization, laws, religious thought, economic institutions, aesthetics, external relations. Diversified readings expose students to the contributions of major historians working in the fields covered.

29.323 History of India II (c 01.00)

By the end of Moghul rule India was gradually entering the modern phase of its history. The course traces this progression in politics (under British auspices), in social change (under Indian sponsorship), and in terms of economic behavior and international relationships. The theme is an effort to grasp the meaning of contemporary Indian civilization through a study of its recent past.

29.324 Social History of the United States I (c 01.00)

Social factors in U.S. history from colonial times to the Civil War. Emphasis upon family, labor, immigration, slavery, religion, the westward movement.

29.325 Social History of the United States II (c 01.00)

Analysis of American society since the Civil War, with special attention to social classes and ethnic groups, industrialism, technology, the social gospel, social welfare and urban developments.

29.326 The City in History I (c 01.00)

Historical development of the city; the place of the city in the history of civilization; the city as a blessing and as a problem.

29.327 The City in History II (c 01.00)

Selected topics in American urban history.

29.328 Intellectual History of the United States I (c 01.00)

Ideas and attitudes of the American people and their leaders from colonial times to the Civil War. Puritanism, the enlightenment, transcendentalism, democracy and nationalism.

29.329 Intellectual History of the United States II (c 01.00)

Dominant patterns of American thought from the Civil War to the present. Impact of Darwinian evolution, industrialism, the vanishing frontier, progressive democracy, imperialism and war.

29.332 The Afro-American in United States History (c 01.00)

The experience of Blacks in America from 1619 to the present. Contributions Blacks have made to American society and the effect of White society upon the Blacks. Suggested prerequisites: 29.207 and 29.208.

29.333 History of Archival Administration (c 01.00)

The nature of archives and concepts of archival administration. Comparative survey of the history and present practices in the principal countries of the world, with special emphasis on the United States.

29.334 Administration of Modern Archives (c 01.00)

Nature, value and use of public and private archives. Principles and techniques for appraisal, preservation, arrangement, description and reference service for archives, personal papers and historical manuscripts. Survey of American archival agencies.

29.390 Independent Reading Course in History (c 00.25 through 02.00)

See Independent Reading Courses and Study Projects under General Curriculum Information.

400-LEVEL**29.401 Historiography (c 01.00)**

Analysis of major historians and historiographical problems in the United States, Europe and other areas. For history majors with junior or senior standing. Open to non-majors on room-available basis. Consult semester bulletin for specific topics to be considered each semester.

29.450 Selected Topics in History and Society (c 01.00)

Particular themes or aspects of history and social change, such as diplomacy, war, intellectual or economic development, the public interest, health and welfare, in which relatively limited but vital areas of historical development are explored in depth. Consult semester bulletin for specific offerings under this rubric.

29.480 Major Seminar (c 01.00)

Methods and materials for historical research and writing, with special emphasis on resources in the Washington area. Should not be taken in the last semester before graduation or during the same semester as that in which the student practices teaching. Should be taken after historiography or historical methods.

29.490 Independent Study Project in History (c 00.25 through 02.00)

See Independent Reading Courses and Study Projects under General Curriculum Information.

Graduate Courses

All courses listed below carry graduate credit. .500 level courses are open to graduate and qualified undergraduate students. Undergraduate students in .500 level courses receive one course unit for 3 or 4 semester hour credits. Courses at the .600 and .700 levels are open to graduate students only.

29.590 Independent Reading Course in History (s 01.00 through 06.00)

See Independent Reading Courses and Study Projects under General Curriculum Information.

600-LEVEL**29.600 Ancient Studies (s 03.00)**

Topical and chronological courses in ancient history. Examples of courses offered under this rubric: (1) Greece in the Age of Tyrants; (2) Greek Oligarchy—The Spartan and Corinthian Experience; (3) Classical Greece; (4) Greece in the Fourth Century; (5) Major Greek Historians; (6) The Roman Republic; (7) The Roman Empire; (8) Major Roman Historians; (9) Historiography of the Comparative Causes of War in Antiquity. Consult the semester bulletin for specific courses offered each semester.

29.610 Change and Revolution in Europe (s 03.00)

Topical and chronological courses in Modern European history, from the fifteenth century to the present. Examples of courses offered under this rubric include: (1) Renaissance Civilization; (2) Reformation History; (3) The Crisis of the 17th Century; (4) The French Revolution; (5) 19th Century Revolutions; (6) The Impact of Industrialization on European Society. Consult the semester bulletin for specific courses offered each semester.

29.611 European National Development (s 03.00)

Topical and chronological courses in European history stressing national developments. Examples of courses offered under this rubric: (1) Modern France; (2) Germany from Bismarck to Brandt; (3) Nazi Germany; (4) Eastern Europe in the Age of Nationalism. Consult the semester bulletin for specific courses offered each semester.

29.612 European Thought, Politics and Society (s 03.00)

Topical and chronological courses in European intellectual, political and socio-economic history. Examples of courses offered under this rubric: (1) Early Modern Intellectual History; (2) Modern Intellectual History; (3) Modern European Economic and Social History; (4) The Ancien Regime; (5) The Americanization of Europe; (6) Diplomacy, War and Social Change: Napoleon to Hitler. Consult the semester bulletin for specific courses offered each semester.

29.613 British Studies (s 03.00)

Topical and chronological courses in British History. Examples of courses offered under this rubric: (1) The Tudors—personality and kingship; (2) The Century of Revolution—an examination of the revolutions of the 1640's and 1688–89; (3) The Anatomy of Reform from the Late 18th century to the Present; (4) Ireland from the Flight of the Earls; (5) The Origins of Modern British Society; (6) The Party System; (7) Individual Liberty—law, morality and personal freedom from the middle ages to the Wolfenden Committee Report; (8) The Community of the Shire; (9) Popular Reaction to Economic and Social Change—Robin Hood and Wat Tyler to Ned Ludd and Captain Swing. Consult the semester bulletin for specific courses offered.

29.615 Latin American Studies (s 03.00)

Topical and chronological courses in Latin American history. Examples of courses offered under this rubric: (1) Diplomatic History of Latin America; (2) Intellectual History; (3) Comparative History of the Americas; (4) Imperialism and Dependency in Historical Perspective; (5) Twentieth Century Revolutions in Mexico and the Caribbean; (6) Change and Revolution in Spanish South America; (7) History of the Foreign Policies of Argentina, Brazil, Chile and Mexico in the Twentieth Century. Consult the semester bulletin for specific courses offered each semester.

29.616 Russian Studies (s 03.00)

Topical and chronological courses in Russian history. Examples of courses offered under this rubric: (1) Autocracy and Modernization, 1861–1905; (2) Russia on the Eve of Revolution, 1905–1917; (3) Russia and the West; (4) The Peasantry in Russia; (5) Intellectual History; (6) The Growth of Autocracy; (7) Soviet Politics and Culture. Consult the semester bulletin for specific courses offered each semester.

29.617 Asian Studies (s 03.00)

Topical and chronological courses in Asian history. Examples of courses offered under this rubric: (1) Modern Japanese History; (2) Topics in Indian History; (3) Chinese History (faculty available). Consult the semester bulletin for specific courses offered each semester.

29.618 Contemporary Studies (s 03.00)

Social and political studies on a historical basis that deal directly with contemporary life and society, or with themes in 20th century history that have contemporary importance. Examples of topics to be dealt with under this rubric: Totalitarianism, Racism, Imperialism, Democracy, Modernization, Psycho-history and Environmentalism. Also general courses in recent European history. Consult the semester bulletin for specific courses offered each semester.

29.619 Growth and Process in American History (s 03.00)

Topical and chronological courses stressing the developmental aspects of American history and the historical profession. Examples of courses offered under this rubric: (1) Colonial History; (2) 19th century History; (3) Recent History; (4) Diplomatic History; (5) Economic History; (6) Quantification in History. Consult the semester bulletin for specific courses offered each semester.

29.620 Conflict and Crisis in American History (s 03.00)

Topical and chronological courses with focus on turning points in American history. Examples of courses offered under this rubric: (1) The Revolution; (2) Civil War and Reconstruction; (3) Industrialization; (4) Urbanization; (5) Populism; (6) The World Wars. Consult the semester bulletin for specific courses offered each semester.

29.621 Comparative Approach in United States History (s 03.00)

Contrast and comparison of social, political, economic and diplomatic history of the United States with that of other nations, as for example, slavery in the Americas. Contrast and comparison of regions, institutions, and ideas within the U.S. Consult the semester bulletin for specific courses offered each semester.

NOTE: Students may take courses under the numbers 29.600 through 29.621 and 29.650, below, more than one time with permission of the department.

29.622 History of India I (s 03.00)

A broad survey, by topics, not chronological, of Indian civilization through the period of Moghul rule, ending in the 18th century. Discussions center on such themes as kingship, social organization, laws, religious thought, economic institutions, aesthetics, external relations. Diversified readings expose students to the contributions of major historians working in the fields covered.

29.623 History of India II (s 03.00)

By the end of Moghul rule India was gradually entering the modern phase of its history. The course traces this progression in politics (under British auspices), in social change (under Indian sponsorship), and in terms of economic behavior and international relationships. The theme is an effort to grasp the meaning of contemporary Indian civilization through a study of its recent past.

29.628 Intellectual History of the United States I (s 03.00)

Ideas and attitudes of the American people and their leaders from colonial times to the Civil War. Puritanism, the enlightenment, transcendentalism, democracy and nationalism.

29.629 Intellectual History of the United States II (s 03.00)

Dominant patterns of American thought from the Civil War to the present. Impact of Darwinian evolution, industrialism, the vanishing frontier, progressive democracy, imperialism and war.

29.633 History of Archival Administration (s 03.00)

The nature of archives and concepts of archival administration. Comparative survey of the history and present practices in the principal countries of the world, with special emphasis on the United States.

29.634 Administration of Modern Archives (s 03.00)

Nature, value and use of public and private archives. Principles and techniques for appraisal, preservation, arrangement, description and reference service for archives, personal papers and historical manuscripts. Survey of American archival agencies.

29.650 Selected Topics in History and Society (s 03.00)

Consult the semester bulletin for specific courses offered under this rubric.

29.690 Independent Study Project in History (s 01.00 through 06.00)

See Independent Reading Courses and Study Projects under General Curriculum Information.

700-LEVEL

COLLOQUIA

29.721 Colloquium in Modern Western European History I (s 03.00)

29.722 Colloquium in Modern Western European History II (s 03.00)

29.723 Colloquium in British History I (s 03.00)

29.724 Colloquium in British History II (s 03.00)

29.725 Colloquium in Russian History I (s 03.00)

29.726 Colloquium in Russian History II (s 03.00)

29.727 Colloquium in United States History I (s 03.00)

29.728 Colloquium in United States History II (s 03.00)

RESEARCH SEMINARS

29.751 Research Seminar in European History (s 03.00)

29.752 Research Seminar in United States History (s 03.00)

29.797 Master's Thesis Seminar (s 03.00 through 06.00)

29.799 Doctoral Dissertation Seminar (s 03.00 through 12.00)

Inter-Departmental Science

Correspondence Directory: Leo Schubert, *Coordinator* (Department of Chemistry), Faculties of the Departments of Biology, Chemistry, Mathematics, Physics and Psychology

Fields of Study

Biology, chemistry, mathematics, physics, psychology

Undergraduate Degrees

Bachelor of Science in Distributed Science

Admission to the Major

The University offers a program leading to the Bachelor of Science degree with a major in distributed sciences for students who have been admitted to the College of Arts and Sciences and wish to receive a broader background in science at the undergraduate level than is afforded by the usual Bachelor of Science degree. The degree is planned to meet pre-medical and pre-dental requirements of medical and dental schools as well as the subject content requirements for the secondary school teaching certificate.

Students majoring in distributed sciences may select their major courses primarily from offerings in the fields of biology, chemistry, mathematics, physics, and psychology. Students interested in a program in distributed sciences should consult the chairman of the science department in which they select to complete the largest number of courses. The chairman of the department will assign an advisor early in the program. A minimum of seventeen courses in the combined science/mathematics major and related courses must be completed to qualify for the degree. If psychology is selected for this program, the courses must be experimental or natural-science related; approval must be obtained from the Psychology Department advisor; and 57.200, *Introductory Survey of Psychology*, is to be considered as a tool course.

The following courses (or similar courses) may not be used as credit towards meeting the requirements for this major, though they may be used toward meeting the 32 course unit University requirement:

Biology: 09.100, 09.120, 09.130

Chemistry: 15.101, 15.160, 15.161, 27.101

Mathematics: 41.101, 41.102, 41.105, 41.106

Physics: 51.101, 51.102, 51.103, 51.200, 51.204, 51.205, 51.210

(For those who are emphasizing biology, 41.101 and 41.102 are acceptable.)

Composition and Reading Requirement—See Undergraduate Degree Requirements under General Academic Regulations

Language Requirement—See Undergraduate Degree section under the College of Arts and Sciences

Departmental Requirements

MAJOR COURSES

- (1) Six courses in one science
- (2) Three courses in a second science
- (3) Two courses in a third science
- (4) Two courses in a fourth science
- (5) Two additional courses in *either* (1) or (2) above

RELATED COURSES

Two courses (one each) selected from anthropology, economics, psychology; "Logic and the Scientific Method" (philosophy); and "Physics as Natural Philosophy" (physics).

TOOL COURSES

- 41.101 Applied Calculus
 41.260 Introduction to Computing. Strongly recommended. (Students selecting mathematics as one of the major courses should consult the Department of Mathematics for exceptions to these tool courses.)

Electives

To complete a minimum of 32 courses.

Medical Technology

Correspondence Directory: Richard R. Anderson, Coordinator, Department of Biology

Undergraduate Degree

Bachelor of Science in Medical Technology

Admission to the Major

Any student who has been admitted to the College of Arts and Sciences may apply for admission.

Composition and Reading Requirement—See Undergraduate Degree Requirements under General Academic Regulations.

Language Requirement—See Undergraduate Degree section under the College of Arts and Sciences.

Required Courses**CHEMISTRY**

15.120	General Chemistry I	1	course unit
15.121	General Chemistry Laboratory I	¼	course unit
15.130	General Chemistry II	1	course unit
15.131	General Chemistry Laboratory II	¼	course unit
15.310	Organic Chemistry I	1	course unit
15.312	Organic Chemistry Laboratory I	½	course unit
15.320	Organic Chemistry II	1	course unit
15.321	Organic Chemistry Laboratory II	½	course unit
TOTAL CHEMISTRY		5½	course units

BIOLOGY

09.101	General Biology I	1	course unit
09.102	General Biology II	1	course unit
09.250	Cell Biology	1	course unit
09.335	Vertebrate Physiology	1	course unit
09.356	Genetics	1	course unit
09.340	Microbiology	1	course units
TOTAL BIOLOGY		6	course units

MEDICAL TECHNOLOGY COURSES

The following courses (09.360–09.369) are open only to students who have (1) completed 24 or more courses with a cumulative grade point average of 2.0 or better, (2) have received a grade of "C" or better in all non-elective courses, and (3) have completed 8 or more courses at The American University. Transfer students with less than 8 courses taken at AU or students who do not precisely meet the other requirements may arrange admission to senior courses only by special arrangement with the Coordinator of the Medical Technology Program.

Medical Technology courses are given at the Oscar B. Hunter Laboratory, 915 Nineteenth Street, N.W., Washington, D.C., in affiliation with Sibley Hospital and Doctors Hospital. The program requires 12 months of study during which the student may take other courses only by special arrangement. Senior students admitted to the program are automatically considered for scholarships awarded by the Oscar B. Hunter Fund.

09.360	Blood Banking	1¼	course unit(s)
09.361	Clinical Parasitology	½	course unit(s)
09.362	Immunology and Serology	¼	course unit(s)
09.363	Urinalysis and Clinical Microscopy	¼	course unit(s)
09.364	Hematology	1½	course unit(s)
09.365	Laboratory Management and Basic Statistics	¼	course unit(s)
09.366	Clinical Chemistry	1¾	course unit(s)
09.367	Clinical Microbiology and Mycology	1¾	course unit(s)
09.368	Coagulation	¼	course unit(s)
09.369	Clinical Pathology	¼	course unit(s)
TOTAL MEDICAL TECHNOLOGY		8	course units

MATHEMATICS

One semester college level mathematics	1	course unit
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ELECTIVES

	4½	course units
TOTAL COURSE WORK	32	course units

To practice Medical Technology, students must pass the Medical Technology Registry Examination administered by the American Society of Clinical Pathologists, given after the completion of the coursework.

Graduate Degree

Master of Science in Science Teaching

The degree of MSST is administered jointly in the College of Arts and Sciences by the Departments of the Sciences, Mathematics, and Education. A student interested in the MSST program should consult Dr. Leo Schubert, coordinator, and also the chairman of the science department in which he plans to take his major. The chairman of that department will assign an advisor.

Persons taking the degree in biology must consult the department chairman well before applying for the comprehensive examination.

Course Requirements

Minimum of 30 hours of approved graduate work with six or more hours taken in the major field. The student's undergraduate and graduate courses in the major field must total a minimum of 32 credit hours.

Other Requirements

(a) A minimum of eight hours in a second science field.

(b) One year of college mathematics (algebra and analytic geometry or equivalent) taken either before entering the MSST program or as non-credit courses along with the courses taken for graduate credit.

(c) Six hours of graduate courses in education upon consultation with the MSST advisor in the Department of Education; courses should be related to one of the comprehensive examinations in education. The comprehensive fields in education may be selected from the following areas: History and Philosophy of Education, Psychology of Education, and Science Education.

A limited number of courses (12 semester credit hours) from the .300-.400 level may be used toward the requirements of this degree. These courses may be selected from:

09.304	09.356	41.360	41.474
09.335	41.310	41.412	51.330
09.340	41.321	41.413	51.350
09.341	41.322	41.461	51.370

Written Comprehensive Examinations

Two, including one field in the sciences or mathematics and one in education.

College Interdisciplinary Programs

Undergraduate Degree

Bachelor of Arts in Interdisciplinary Studies

Bachelor of Science in Interdisciplinary Studies

Admission to the Major

The student may make formal application any time after his first semester at The American University provided he has a 2.00 cumulative academic average.

Composition and Reading Requirement—See Undergraduate Degree Requirements under General Academic Regulations.

Language Requirement—See Undergraduate Degree section under the College of Arts and Sciences.

This program permits CAS undergraduate students to complete an interdisciplinary major according to their needs, capacities and interests. A program is formulated with the advice of and approval by at least three full-time faculty members from disciplines relevant to the student's defined emphasis, and is subject to the approval of the dean and the review of the University Interdisciplinary Studies Committee.

The initiative in all such degrees is with the student. It is the student who is responsible for determining the central concept around which the program is to center. With the three faculty members, he determines the requirements of his concentration and identifies a sequence of course work to fulfill his program needs. The concept should be formulated in a written statement no later than the junior year. An interdisciplinary major can also be taken as a second major.

The University Interdisciplinary Studies Committee sets all requirements and procedures for this program. Interested students should consult the dean's office for assistance.

MARINE SCIENCE PROGRAM

Correspondence Directory: William C. Banta, *Biology Department*

The American University offers a variety of graduate and undergraduate courses in the marine and environmental sciences on campus and through the facilities of the Marine Science Consortium. Because backgrounds and interests of students are so varied, and because there are so many subdisciplines in the field, separate interdisciplinary programs, at the bachelor's and master's levels, are designed for individuals. Examples of specializations include Oceanography, Marine Biology, Marine Ecology, and Marine Environmental Protection.

The Marine Science Consortium operates two laboratories: one at Lewes, Delaware, and one at Wallops Island, Virginia. Both locations offer complete cafeteria and dormitory facilities and will be utilized during the fall and spring semesters for field trips and student research projects. In addition, more than thirty courses are offered at these bases during the summer months. Students live at the laboratories and enroll in one course per three-week session. Five three-week sessions are planned for each summer session. Courses are intensive, field-oriented, and emphasize ship-board experience. The Consortium operates fifteen vessels, the largest of which is the 92-foot Annandale, a floating oceanographic laboratory with space for fifteen investigators. The programs are especially valuable for undergraduate and graduate students, teachers, and government personnel involved in biology, geology or environmental management.

Summer courses offered at the Marine Science Consortium Laboratories:

Introduction to Oceanography
Fields Methods in Oceanography
Marine Invertebrates
Marine Biology
Management of Wetland Wildlife
Marine Ecology
SCUBA
Field Biology

Physical Oceanography
Marine Meteorology
Marine Micropaleontology
Marine Geophysics
Exploration Methods in Marine Geology
Coastal Geomorphology
Problems in Marine Science
Oceanography II

Marine Plankton
Chemical Oceanography
Marine Botany
Anatomy of Marine Chordates
Marine Geology

Marine Microbiology
Environmental Science Education
Ocean Resources
Research Cruise
Marine Ichthyology

INTERDISCIPLINARY COMMUNICATION DEGREE—See the Department of Communication.

ENVIRONMENTAL STUDIES (SECOND MAJOR)—Consult Michael A. Champ, Department of Biology.

Graduate Degrees

Candidates for graduate degrees are subject to the University Graduate Degree Requirements (see Graduate Degrees Requirements under General Academic Regulations). Program information is available from the Associate Dean for Graduate Studies, College of Arts and Sciences.

Master of Arts/Master of Science

This program permits students to formulate interdisciplinary curricula according to their needs and interests. A program is formulated with the advice of and approval by at least three full-time members from disciplines relevant to a defined topic or purpose and is subject to the review of the University Interdisciplinary Studies Committee and the approval of the dean of the College of Arts and Sciences. Interested students should consult the Dean's Office for assistance.

INTERDISCIPLINARY COMMUNICATION DEGREE—See the Department of Communication.

Courses of Instruction

Undergraduate level course values are expressed as *course units* according to the following decimal notations: (c 00.25) = $\frac{1}{4}$ course unit; (c 00.50) = $\frac{1}{2}$ course unit; (c 00.75) = $\frac{3}{4}$ course unit; (c 01.00) = 1 course unit; (c 01.50) = $1\frac{1}{2}$ course units; etc.

Graduate level course values are expressed as *semester credit hours* according to the following decimal notations: (s 01.00) = 1 semester hour; (s 02.00) = 2 semester hours; (s 03.00) = 3 semester hours; etc. There are no fractional semester credit hours.

Undergraduate Courses

75.101-102 Selected Human Problems: Contemporary Issues in World Affairs (c 01.00, 01.00)

For course description see listing under the School of International Service, College of Public Affairs.

75.333 Man the Mythmaker (c 01.00)

This interdisciplinary approach to the concept of myth will investigate the means by which man has always attempted to find meaning in his cosmos. Readings drawn from philosophy, literature, psychology, religion, etc. Seminar course with several critical papers and emphasis on participation in class. (Junior or senior status recommended.)

Graduate Courses

All courses listed below carry graduate credit. .500 level courses are open to graduate and qualified undergraduate students. Undergraduate students in .500 level courses receive one course unit for 3 or 4 semester hour credits. Courses at the .600 and .700 levels are open to graduate students only.

75.506 Development of Scientific Thought I (s 03.00)

An historical and philosophical examination of the development of science from the earliest times.

75.507 Development of Scientific Thought II (s 03.00)

Continuation of 75.506.

75.523 Colloquium on France (s 03.00)

For course description see listing under the Department of Language and Foreign Studies, College of Arts and Sciences.

75.533 Colloquium on Germany (s 03.00)

For course description see listing under the Department of Language and Foreign Studies, College of Arts and Sciences.

75.543 Colloquium on the Soviet Union (s 03.00)

For course description see listing under the Department of Language and Foreign Studies, College of Arts and Sciences.

75.553 Colloquium on Latin America (s 03.00)

For course description see listing under the Department of Language and Foreign Studies, College of Arts and Sciences.

75.700 Folger Seminar in Renaissance and Eighteenth-Century Studies (s 03.00)

Each semester three seminars are offered. Graduate students who wish to participate should consult the Department of Literature. Topics to be announced.

Jewish Studies

Correspondence Directory: Gershon Greenberg, *Chairman*

Fields of Study

Interdisciplinary program with course work taken in Jewish studies, language, philosophy, religion, history, literature, government, sociology, and international relations.

Full-time Faculty

Professor: Amos Perlmutter, Theodore Rosché

Associate Professor: Gershon Greenberg

Assistant Professor: Jonathan Siegel

Undergraduate Degree

Bachelor of Arts

The Jewish Studies Program is available through registration in the College of Arts and Sciences. Students interested in this program should consult the Chairman of the Jewish Studies Program.

Admission to the Major

Applications for a Jewish studies major are reviewed at the beginning of the sophomore year. Admission to the major is based on a personal interview, a written statement of the student's course plans, personal and professional goals, and a grade point average of 2.75 (on a four point scale).

Composition and Reading Requirement—See Undergraduate Degree Requirements under General Academic Regulations.

Language Requirement—See Undergraduate Degree section under the College of Arts and Sciences.

Major Requirements

The total major requirement is 16 course units.

(A) Jewish studies courses required of all majors:

- 34.101 Introduction to Jews and Judaism (may be waived upon demonstration of equivalent preparation)
- 34.301 Hebrew and Jewish Literature in Translation I
- 34.302 Hebrew and Jewish Literature in Translation II
- 34.305 History of the Jewish People I
- 34.306 History of the Jewish People II
- 34.481 Senior Seminar in Jewish Studies

(B) Courses in other disciplines required of all majors:

- 47.150 Introduction to Hebrew Scriptures
- 47.320 History of Jewish Thought I
- 47.321 History of Jewish Thought II
- 36.128 Hebrew, Elementary Modern I
- 36.129 Hebrew, Elementary Modern II
- 36.228 Hebrew, Intermediate Modern I
- 36.229 Hebrew, Intermediate Modern II
- 36.396 Selected Topics: Hebrew Literature: Selected Texts (or 34.301 and 34.302)

(C) A minimum of three additional course units selected from Jewish Studies Program offerings and/or departmental offerings.

Consult the program chairman for the list of courses that may be used to satisfy the requirements in (C) above.

Study Abroad

The Jewish Studies Program encourages students to complete some of their studies in Israel. The American University and The George Washington University jointly sponsor a year's program at Tel Aviv University and a summer institute in Israel. Credit earned in both programs is applicable to the Jewish studies major. The year at Tel Aviv University offers courses in both English and Hebrew, as well as an *ulpan* for intensive study of Hebrew. A faculty member of The American University, The George Washington University, or Tel Aviv University will serve as resident program director.

Students may earn up to eight course unit credits for a full year of study in Tel Aviv, plus two course unit credits for the *ulpan* program. The summer institute in Israel is a five week program with courses offered by professors from the sponsoring institutions. Students may earn up to one and one-half course unit credits for the institute. For complete course listings and summer study topics, contact the chairman of the Jewish Studies Program.

Courses of Instruction

Undergraduate level course values are expressed as *course units* according to the following decimal notations: (c 00.25) = $\frac{1}{4}$ course unit; (c 00.50) = $\frac{1}{2}$ course unit; (c 00.75) = $\frac{3}{4}$ course unit; (c 01.00) = 1 course unit; (c 01.50) = $1\frac{1}{2}$ course unit; etc.

Graduate level course values are expressed as *semester credit hours* according to the decimal notations: (s 01.00) = 1 semester hour; (s 02.00) = 2 semester hours; (s 03.00) = 3 semester hours; etc. There are no fractional semester credit hours.

Undergraduate Courses

34.101 Introduction to Jews and Judaism (c 01.00)

Survey of the varieties of Jewish life and thought, including social and political history, theology, philosophy, and literary expression from the Bible to the present. *Prerequisite for all Jewish studies courses.*

34.301 Hebrew and Jewish Literature in Translation I (c 01.00)

Survey of the varieties of post-Biblical literature in translation, including Biblical interpretation, legend, legal texts, poetry and folklore, through the middle ages. Consideration given to literary styles, social context and patterns of development. *Prerequisite:* 34.101.

34.302 Hebrew and Jewish Literature in Translation II (c 01.00)

Continuation of 34.301 Modern and contemporary varieties of literature. *Prerequisite:* 34.101.

34.305 History of the Jewish People I (c 01.00)

Chronological study of the Jewish people from Abraham to the Spanish expulsion in 1492, considering social, political, economic, and demographic factors. *Prerequisite:* 34.101.

34.306 History of the Jewish People II (c 01.00)

Continuation of 34.305. Chronological study from the Spanish expulsion to the present. *Prerequisite:* 34.101.

34.390 Independent Reading Course in Jewish Studies (c 00.25 through 02.00)

Consult chairman for appropriate topics to be offered each semester. See Independent Reading Courses and Study Projects under General Curriculum Information.

34.401 Special Studies in Jewish Literature in Translation (c 01.00)

Offered on a rotating basis, including: Jewish Bibliography, Selected Modern Texts, Biblical Exegesis, Holocaust Literature, etc.

34.405 Jewish History: Talmudic and Gaonic Period (c 01.00)

Political, social, and legal structure of the Jewish community in Babylonia under Iranians and Arabs, and in post-exilic Palestine under Romans, Christians, and Arabs. *Prerequisite:* 34.305 and 34.306.

34.406 Jewish History: Mediaeval Period (c 01.00)

The daily life of the Jews in their own communities and in relation to Christians and Muslims. *Prerequisite:* 34.305 and 34.306.

34.481 Senior Seminar in Jewish Studies (c 01.00)

Preparation of major research paper in student's selected area, presented to the seminar for criticism. *Prerequisite:* Jewish studies majors with senior standing only.

34.490 Independent Study Project in Jewish Studies (c 00.25 through 02.00)

Students complete a work project, research paper, critical bibliography or other approved project under the direction of a faculty member. See Independent Reading Courses and Study Projects under General Curriculum Information.

Language and Foreign Studies

Correspondence Directory: Vadim Medish, *Chairman*

Fields of Study

Concentrations: French studies, German studies, Linguistics, Russian studies, Spanish and Latin American studies; joint area and language programs with the School of International Service, including Latin America, Far East, South and Southeast Asia, and USSR; joint program with Communication Department.

Full-time Faculty

Professor: Fernando Belaunde-Terry, Vadim Medish, Hugo J. Mueller, Bruno F. Steinbruckner
Associate Professor: Madeleine Betts, Vera Z. Borkovec, Edward I. Burkart, Marie A. Charbonneaux, Jessica W. Goldin, Grace S. Mancill, Hugo Pineda
Assistant Professor: Gisela A. Huberman, Eleni K. Oktay, Oscar Salazar, Michael Struelens
Instructor: Josette Wisman

Undergraduate Degrees

Bachelor of Arts in French, German, Russian, Spanish Studies**Admission to the Major**

Freshmen and transfers are admitted to the department. They must maintain a B grade average in their major and related course work.

Department Requirements

Completion of the elementary and intermediate language levels. Requirements of elementary and intermediate language course work may be waived if high school or other preparation warrants it.

Major Concentration

Nine courses as follows:

Conversation and Composition I, II, III, IV (If warranted by language proficiency, a portion or all may be replaced with .500 level literature courses.)

Civilization I and II

Introductory linguistic course, "Topic" or "Colloquium" or literature

Practicum (student-teaching internships, field work, community projects)

Related Field

Six courses in one of the following fields:

1. Area studies at the .300 level or above, including "Colloquia" and literature
2. A second foreign language
3. Teacher training

At least three of these courses must be in the department.

Departmental Examination

A comprehensive examination during last semester.

Electives

To complete a minimum of 32 courses.

Bachelor of Arts In Language and Area Studies

This degree program is administered jointly with the School of International Service. It is the only undergraduate degree offered by The American University which both permits an area specialization and requires intensive training in the language of the area.

Freshmen and transfers are admitted to the Department of Language and Foreign Studies or the School of International Service. They must achieve a B or better cumulative average and determine their language/area before they are formally recognized as majors.

Programs of Study

The student may choose one of three different programs of study, depending on his language and area interest:

- A. Russian—USSR
- B. Spanish—Latin America
- C. French or German—Western Europe

Prerequisites

Elementary and intermediate language of the area, or the equivalent.

Required Courses

1. Three course units in Conversation and Composition I and II (of an appropriate language) or approved substitutes.

2. Two course units in Civilization I and II (in the appropriate language).

3. Eight (8) additional courses specific to the area of specialization, to be selected by the student in consultation with his advisor from among those offered in anthropology, economics, history, international relations, political science, literature, and interdisciplinary courses and colloquia. The eight must be distributed among two or more of these fields or disciplines, and may not include required prerequisites which are not specific to the area. At least four (4) courses must be fulfilled in the Department of Language and Foreign Studies.

4. A total of four (4) courses must be taken in the School of International Service, of which a minimum of two (2) must be in the area of specialization (they may be among the eight courses required in the previous paragraph).

Electives

To complete a minimum of 32 courses.

Combined B.A. and M.A. in Foreign Language and Communication Media

(Administered jointly with the Department of Communication)

This three year program combines junior and senior years culminating in a B.A., and a graduate year leading to an M.A. Admission to the undergraduate portion of the program, however, does not guarantee admission to the graduate degree status. The latter is a separate step subject to graduate admission requirements.

Admission to the Major

Undergraduate students are admitted directly to the Department of Language and Foreign Studies. To be formally recognized as joint majors working toward the M.A. they must first achieve senior standing and then be accepted by *both* departments for the graduate degree portion of the program.

Language Requirement

Before the student can take any of the required courses taught in the appropriate foreign language he must have completed two college years of that language or its equivalent.

Choice of Languages

French, German, Russian, or Spanish.

Choice of Media

Print Journalism, Broadcast Production, or Broadcast Journalism.

Undergraduate Course Work

(1) All students must take:

17.101	Writing for Mass Communication	1	course unit
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(2) Two of the following:

37.199	International Vocabulary	1	course unit
37.200	Language and Mind	1	course unit
37.300	Language, Introduction to	1	course unit

(3) Four courses in one of the following Communication fields:

PRINT JOURNALISM (4 course units)

17.320	Reporting I
17.325	Feature Article Writing, or 17.524, Reporting II
17.322	Editorial Policies and Methods I
17.343	Photography, or 17.532, Publication Layout and Design, or 17.520, Editorial Policies and Methods II

BROADCAST PRODUCTION (4 course units)

17.333	Fundamentals of Radio-TV-Film
17.383	Radio Production and Programming, or 17.384, TV Studio Operations
17.584	Television Production and Direction I
17.585	Television Production and Direction II, or 17.583 Film Production

BROADCAST JOURNALISM (4 course units)

17.320	Reporting I
17.333	Fundamentals of Radio-TV-Film
17.385	Broadcast Journalism I
17.528	Broadcast Journalism II

(4) Five courses in the appropriate language (5 course units)

Conversation and Composition
 Civilization I and II
 "Topics" or "Colloquia"

Electives

To complete a minimum of 32 courses.

Graduate Requirements

(1) All students take:

- | | | |
|--------|--|---------------------------|
| 17.503 | Mass Media and Society | |
| 17.596 | Selected Topics in Communication Studies | |
| 17.531 | International Communication Systems | (9 semester credit hours) |

(2) Four approved "Colloquia" (12 semester credit hours)

(3) Research options:

- | | | |
|--------|--|---------------------------|
| 17.760 | Methodology of Communication Research, and | |
| 37.700 | Visiting Scholar Seminar, or a Thesis | (6 semester credit hours) |

(4) A .500 level Internship of Foreign Communication (3 semester credit hours)

(5) A .500-.700 level "elective" (3 semester credit hours)

TOTAL GRADUATE REQUIREMENT	33 semester credit hours
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Written Comprehensive Examinations

One examination in General Communication (in English)

One examination in appropriate "Foreign Culture" (in foreign language)

Graduate Degrees

Candidates for graduate degrees in all departments are subject to University Graduate Degree Requirements (see Graduate Degree Requirements under General Academic Regulations). Requirements given below list the minimal requirements from a departmental point of view. University requirements that exceed these requirements are nonetheless binding upon the student.

Master of Arts in French Studies, German Studies, Russian Studies, Spanish Studies**Prerequisite**

Proficiency in the appropriate language and literature demonstrated either by a B.A. degree in that field of study or equivalent preparation.

Degree Requirements

Minimum of 30 hours of approved graduate work, including:

Course Work

At least 24 hours in appropriate courses and colloquia. A better than B average must be maintained within this group.

Research Options

(a) Thesis option must include at least one .700 level seminar. The thesis may be expressed as three or six hours of credit. Oral defense of the thesis before an appointed committee.

(b) Non-thesis option must normally include two .700 level seminars. With special permission, one seminar may be replaced by an individual research project.

Qualifying Examination

An oral interview before an appointed committee to evaluate the student's preparedness for the written comprehensive examination. Conducted in the appropriate foreign language.

Comprehensive Examination

A written comprehensive examination in the field of core courses.

Fields for Written Comprehensive Examinations

The comprehensive fields listed below are based on core courses and additional courses as required plus additional reading lists:

- | | |
|--------|-------------------|
| 37.002 | French Literature |
| 37.003 | German Literature |

37.004 Russian Literature

37.005 Spanish and Latin American Literature

Selected courses and seminars with emphasis on particular authors, movements, periods, or literary forms.

Master of Arts in Linguistics

Prerequisite

B.A. or its equivalent. Proficiency in a modern foreign language equivalent to at least three college years.

Course Requirements

Minimum of 30 hours of approved graduate work, including:

Program A, With Thesis Option

- (1) Core courses: At least 15 hours in general linguistics
- (2) Six hours in M.A. Thesis Seminar(s), and oral defense of the thesis
- (3) At least one .700-level seminar
- (4) No more than six hours of electives

Program B, With Non-Thesis Option

- (1) Core courses: At least 15 hours in general linguistics
- (2) Six hours in one of the following concentrations:
 - (a) Applied Linguistics
 - (b) Formal Linguistics
 - (c) Philology
- (3) At least two .700-level seminars. With special permission, one seminar may be replaced by an individual research project.
- (4) No more than three hours of electives

Language Requirement

Proficiency in a modern foreign language must be demonstrated in one of the following ways:

- (1) Successful completion of a .500-.700-level course conducted entirely, or in part, in a foreign language.
- (2) Successful completion of an individual research project dealing with a linguistic aspect of an approved language.
- (3) At least one semester of a Teaching Fellowship in a foreign language.

Note: Credit thus earned is applicable toward the student's course requirements. Waiver of the foreign language requirement may be granted to (a) foreign students, and (b) possessors of a B.A. or its equivalent in a foreign language.

Other Requirements

A better-than-B average must be maintained within the 15 hours of core courses.

No more than three hours of electives may be taken in disciplines other than those offered by the Dept. of Language and Foreign Studies.

Qualifying Examination

An oral interview before an appointed committee to evaluate the student's preparedness for the written comprehensive examination.

Comprehensive Examination

A written comprehensive examination in the field of General Linguistics. 37.001 General Linguistics based on 37.500, 37.501, 37.502, 37.503, 37.505, and additional courses as required, plus additional reading lists.

Courses of Instruction

Undergraduate level course values are expressed as course units according to the following decimal notations: (c 00.25) = ¼ course unit; (c 00.50) = ½ course unit; (c 00.75) = ¾ course unit; (c 01.00) = 1 course unit; (c 01.50) = 1½ course units; etc.

Graduate level course values are expressed as *semester credit hours* according to the following decimal notations: (s 01.00) = 1 semester hour; (s 02.00) = 2 semester hours; (s 03.00) = 3 semester hours; etc. There are no fractional semester credit hours.

Undergraduate Courses

The basic undergraduate level courses offered by the department through its Language Institute are listed alphabetically by field of study below. French, German, Hebrew, Japanese, Russian and Spanish, on both the elementary and intermediate level, are always offered during each academic year. Students should consult the semester bulletins for formal course offerings.

Offered each academic year

French	Japanese
German	Russian
Hebrew	Spanish

Offered on a rotating basis or by tutorial

Arabic	Korean
*Chinese	*Latvian
*Czech	Norwegian
Danish	*Polish
Dutch	Portugese
*Greek (Modern)	Serbo-Croatian
*Hindi	Swedish
*Hungarian	*Thai
*Indonesian	Vietnamese
Italian	Yiddish

*Offered in 1974-75 as regular courses.

DESCRIPTION OF THE LANGUAGE PROGRAM

FIRST YEAR

100-level multi-media "Elementary" language courses.

Emphasis on audio-lingual skills, pronunciation, and fluency in common speech situations. Inductive presentation of grammar. Basic vocabulary. Reading and writing as auxiliary skills. Five clock hours per week of class instruction plus individual language laboratory work.

Time-compressed courses telescoping two semesters into one by utilizing multi-media instruction. Systematic use of television. Available in French, Russian, and Spanish.

100-level "Elementary" language courses.

Emphasis on audio-lingual skills. Intensive drills on structure. Emphasis on pronunciation and fluency in common speech situations. Inductive presentation of grammar. Basic vocabulary. Reading and writing as auxiliary skills. Five clock hours per week of class instruction plus individual language laboratory work. In all language courses, students are expected to do individual language laboratory work outside of class.

Special time compressed, multi-channel instruction based on systematic use of television. Available in French and Spanish.

SECOND YEAR

200-level multi-media "Intermediate" language courses.

Development of audio-lingual skills, reading and writing. Text material focused on cultural patterns. Five clock hours per week of class instruction plus individual language laboratory work.

Time-compressed courses telescoping two semesters into one by utilizing multi-media instruction. Systematic use of television. Available in French, Russian, and Spanish.

200-level "Intermediate" language courses.

Development of audio-lingual skills, reading and writing. Copious drills. Text material focused on cultural patterns. Five clock hours per week of class instruction plus individual language laboratory work.

Special time-compressed, multi-channel instruction based on systematic use of television. Available in Spanish only.

THIRD YEAR*300-level "Topics."*

Content lecture course on a selected topic. Taught in the foreign language. Designed for both majors and nonmajors. May be taken more than once for credit, provided that different subject matters are covered.

300-level "Conversation and Composition."

Further development of audio-lingual and reading-writing skills. Idioms. Semantic problems. Designed especially for majors.

300-level "Vocabulary Enrichment" language courses.

Supervised independent study. Use of selected vocabulary. Days and hours arranged with faculty advisors.

FOURTH YEAR*400-level "Civilization."*

Survey of a foreign civilization. Emphasis on the historical development of literature. Topical lectures. Designed for both majors and non-majors.

400-level "Conversation and Composition."

Perfection of audio-lingual and reading-writing skills. Progression from controlled conversation and composition to free speech and writing. Problems of style. Designed especially for majors.

Time-compressed courses telescoping two semesters into one by utilizing multi-media instruction. Systematic use of television. Available in French, Russian, and Spanish.

NOTES: In all language courses, students are expected to do individual language laboratory work outside of class.

Beginning with Elementary II, successful completion of the preceding level is prerequisite, unless otherwise specified.

CHINESE STUDIES**36.112 Chinese, Elementary I (c 01.00)****36.113 Chinese, Elementary II (c 01.00)****CZECH STUDIES****36.114 Czech, Elementary I (c 01.00)****36.115 Czech, Elementary II (c 01.00)****FRENCH STUDIES****36.122 French Elementary I & II (c 01.50)**

Time-compressed multi-channel instruction.

36.222 French, Intermediate I & II (c 01.50)**37.320 French Topics (c 01.00)**

Content courses taught in French on one of the following topics: (1) Survey of Arts, (2) Political Life, (3) Customs and Manners, (4) The Younger Generation, (5) Architecture, (6) Leisure and Entertainment, (7) Provinces, (8) The Woman, (9) Rulers and Statesmen, (10) Paris, its Places and Inhabitants, (11) France Today and Tomorrow. *Prerequisite:* Two years of college French or the equivalent.

37.324 French Conversation and Composition I and II (c 01.50)

Prerequisite: two years of college French or equivalent.

37.380 French Vocabulary Enrichment (c 00.50)

Supervised independent study. *Prerequisite:* two years of college French or equivalent.

37.420 French Civilization I (c 01.00)

Prerequisite: three years college French or equivalent.

37.421 French Civilization II (c 01.00)

Prerequisite: three years of college French or equivalent.

37.424 French Conversation and Composition III and IV (c 01.50)

Prerequisite: three years college French or equivalent.

37.491 French Practicum: Internship (c 01.00)

Supervised work-study program. *Prerequisite:* three years of college French or equivalent.

GERMAN STUDIES**36.124 German, Elementary I (c 01.00)****36.125 German, Elementary II (c 01.00)****36.224 German, Intermediate I (c 01.00)****36.225 German, Intermediate II (c 01.00)****37.330 German Topics (c 01.00)**

Content course taught in German on the following topics: (1) Customs and Manners, (2) Lands and Regions, (3) East and West, (4) Survey of Arts. *Prerequisite:* Two years of college German or the equivalent.

37.334 German Conversation and Composition I and II (c 01.50)

Prerequisite: two years of college German or equivalent.

37.380 German Vocabulary Enrichment (c 00.50)

Supervised independent study. *Prerequisite:* two years of college German or equivalent.

37.430 German Civilization I (c 01.00)

Prerequisite: three years college German or equivalent.

37.431 German Civilization II (c 01.00)

Prerequisite: three years college German or equivalent.

37.434 German Conversation and Composition III and IV (c 01.50)

Prerequisite: three years college German or equivalent.

36.126 Greek, Elementary I (c 01.00)**36.127 Greek, Elementary II (c 01.00)****HEBREW STUDIES****36.128 Hebrew, Elementary Modern I (c 01.00)****36.129 Hebrew, Elementary Modern II (c 01.00)****36.228 Hebrew, Intermediate Modern I (c 01.00)****36.229 Hebrew, Intermediate II (c 01.00)****HINDI STUDIES****36.130 Hindi, Elementary I (c 01.00)****36.131 Hindi, Elementary II (c 01.00)****HUNGARIAN STUDIES****36.132 Hungarian, Elementary I (c 01.00)****36.133 Hungarian, Elementary II (c 01.00)****36.396 Selected Topics: Hungarian Civilization I (c 01.00)****36.396 Selected Topics: Hungarian Civilization II (c 01.00)****INDONESIAN STUDIES****36.134 Indonesian, Elementary I (c 01.00)****36.135 Indonesian, Elementary II (c 01.00)**

JAPANESE STUDIES

- 36.136 Japanese, Elementary I (c 01.00)**
36.137 Japanese, Elementary II (c 01.00)
36.236 Japanese, Intermediate I (c 01.00)
36.237 Japanese, Intermediate II (c 01.00)
37.336 Japanese Conversation and Composition I (c 01.00)
37.337 Japanese Conversation and Composition II (c 01.00)

LATVIAN STUDIES

- 36.138 Latvian, Elementary I (c 01.00)**
36.139 Latvian, Elementary II (c 01.00)

LINGUISTICS (IN ENGLISH)

- 37.198 Language and Ethnicity (c 01.00)**
37.199 International Vocabulary (c 01.00)

Designed especially for students interested—avocationally and vocationally—in the phenomenon of international vocabulary. Pronunciation, transliteration, and contextual meaning of foreign words. Foreign names and terms. *No foreign language prerequisite.*

- 37.200 Language and Mind (c 01.00)**
37.300 Language, Introduction to (c 01.00)

The nature of language. The field of linguistics. Languages of the world. Linguistic terminology. Relation of linguistics to other disciplines. *No foreign language prerequisite.*

POLISH STUDIES

- 36.140 Polish, Elementary I (c 01.00)**
36.141 Polish, Elementary II (c 01.00)

RUSSIAN STUDIES

- 36.142 Russian, Elementary I and II (c 01.50)**
36.242 Russian, Intermediate I and II (c 01.50)
37.340 Russian Topics (c 01.00)

Content courses taught in Russian on the following topics: (1) Map of the USSR, (2) Political System, (3) The Press. *Prerequisite:* Two years of college Russian or the equivalent.

- 37.344 Russian Conversation and Composition I and II (c 01.50)**

Prerequisite: two years of college Russian or equivalent.

- 37.380 Russian Vocabulary Enrichment (c 00.50)**

Supervised independent study. *Prerequisite:* two years of college Russian or equivalent.

- 37.440 Russian Civilization I (c 01.00)**

Prerequisite: three years college Russian or equivalent.

- 37.441 Russian Civilization II (c 01.00)**

Prerequisite: three years college Russian or equivalent.

- 37.444 Russian Conversation and Composition III and IV (c 01.50)**

Prerequisite: three years college Russian or equivalent.

- 37.491 Russian Practicum: Internship (c 01.00)**

Supervised work-study program. *Prerequisite:* three years of college Russian or equivalent.

SPANISH STUDIES**36.152 Spanish, Elementary I & II (c 01.50)**

Time-compressed multi-channel instruction.

36.252 Spanish, Intermediate I & II (c 01.50)

Time-compressed multi-channel instruction.

37.350 Spanish Topics (c 01.00)

Content course taught in Spanish on the following topics: (1) Regions of Spain, (2) Social Scene in Latin America, (3) Customs and Manners (Spain), (4) regionalism (Latin America), (5) Survey of Latin American Arts, (6) Mexico's Culture. *Prerequisite:* two years of college Spanish or the equivalent.

37.354 Spanish Conversation and Composition I and II (c 01.50)

Prerequisite: two years of college Spanish or equivalent.

37.380 Spanish Vocabulary Enrichment (c 00.50)

Supervised independent study. *Prerequisite:* two years of college Spanish or equivalent.

37.450 Spanish (Hispanic) Civilization I (c 01.00)

Prerequisite: three years college Spanish or equivalent.

37.451 Spanish (Hispanic) Civilization II (c 01.00)

Prerequisite: three years college Spanish or equivalent.

37.454 Spanish Conversation and Composition III and IV (c 01.50)

Prerequisite: three years of college Spanish or equivalent.

37.491 Spanish Practicum: Proyecto Amistad (c 01.00)

A community-oriented work-study program offering a wide variety of experiences in teaching, social services, etc. *Prerequisite:* permission of the instructor.

THAI STUDIES**36.194 Thai, Elementary I (c 01.00)****36.195 Thai, Elementary II (c 01.00)****INDEPENDENT STUDY****37.390 Independent Reading Course in Languages, Foreign Studies and Linguistics (c 00.25 through 02.00)**

See Independent Reading Courses and Study Projects under General Curriculum Information.

37.490 Independent Study Project in Languages, Foreign Studies, and Linguistics (c 00.25 through 02.00)

See Independent Reading Courses and Study Projects under General Curriculum Information.

Graduate Courses

All courses listed below carry graduate credit. .500 level courses are open to graduate and qualified undergraduate students. Undergraduate students in .500 level courses receive one course unit for 3 or 4 semester hour credits. Courses at the .600 and .700 levels are open to graduate students only.

LINGUISTICS (IN ENGLISH)**37.500 Principles of Linguistics I (s 03.00)**

Introduction to the scientific study of language, with emphasis on structural linguistics.

37.501 Principles of Linguistics II (s 03.00)

Introduction to the study of language change, classification of languages, and linguistic reconstruction. Readings, problems, and class discussions.

37.502 Linguistic Structure I; Phonetics and Phonemics (s 03.00)

Phonetics and phonemics. Techniques of describing speech sounds in terms of articulatory movements and formulas. Practice in hearing and transcribing phonetic sounds, using tape recordings. Basic premises underlying phonemic analysis and practical procedures for arriving at the phonemes of a language. *Prerequisite:* 37.500, which may be taken concurrently.

37.503 Linguistic Structure II: Morphology and Syntax (s 03.00)

Problems in the analysis and description of morphological data. Introduction to transformational generative grammar. *Prerequisite:* 37.502.

37.504 Structure of Modern American English (s 03.00)

Systematic examination of English phonology and grammar as well as regional and social aspects of American English. *Prerequisite:* permission of the department.

37.505 History of Linguistics (s 03.00)

Linguistic theories from the Greeks to modern times. Great linguists and their schools of thought. Development of American linguistics.

37.507 Applied Linguistics: Methodology of Foreign Language Teaching (s 03.00)

Comparison of various methods of language teaching. Principles underlying the structural method of language teaching. Application of linguistics in the preparation of teaching materials. Audio-visual aids.

37.508 Teaching English as a Foreign Language (s 03.00)

Methods of teaching English as a foreign language: development of teaching materials; discussion of textbooks, lesson planning, problems of the foreign student. Portion devoted to practical work; writing materials and presenting them orally for class critique.

37.509 Theory and Construction of Grammars (s 03.00)

Emphasis is on the construction of grammars as defining devices to characterize languages. Automata equivalent to various types of grammars are considered, as well as mathematical relations among grammars. Types of languages considered are mathematical, logical, computational and two-dimensional, in addition to natural language. *Prerequisite:* 37.503 which may be taken concurrently.

37.510 Workshop in Foreign Language Teaching (s 01.00 through 03.00)

Workshop dealing with practical problems of foreign language teaching. Designed especially for prospective language teachers and teaching assistants.

37.600 Linguistic Structure III: Theories of Syntax (s 03.00)

Introduction to and comparison of various models on syntactic analysis. *Prerequisite:* 37.503.

37.605 Semantics (s 03.00)

History of semantic theory. Semantic changes, reflecting cultural change. Ambiguity of meaning. Metaphors. Synonymy. Etymologies. World-field theory. Structural semantics versus historical semantics.

37.710 Seminar in Linguistics (s 03.00)

Reports and critical discussion on various theoretical and practical problems in the scientific study of language, methodology in linguistic research, and other pertinent linguistic subjects. Different content fall and spring. Course may be taken for credit more than once.

FRENCH STUDIES (IN FRENCH)**37.520 French Structure (s 03.00)**

A contemporary and historical analysis of the phonology, morphology and syntax of French.

37.521 History of the French Language (s 03.00)

Study of the French language through various stages of its development.

37.522 French Stylistics (s 03.00)

Word choice and word grouping. Figurative speech. Rhetorical figures. Grammatical elements of style. Style levels.

37.523 French Romanticism (s 03.00)

Development of the Romantic movement in early 19th century French literature. Analysis of sentiments of the romanticists.

37.524 French Realism (s 03.00)

19th century French literature from decline of romanticism to turn of century. Periods of expression known as realism, naturalism, and symbolism.

37.525 Contemporary French Literature (s 03.00)

Course content changes each semester; emphasis on genre, movement or major writers. Course may be taken for credit more than once.

37.526 The French Renaissance (s 03.00)

Renaissance and humanistic movement in France in the 16th century. Rabelais, the *Pleiade*, Ronsard, Montaigne.

37.527 Eighteenth Century France; Men and Ideas (s 03.00)

Attitudes and ideas of the age of enlightenment as reflected in Montesquieu, Diderot, the Encyclopedists, Voltaire and Rousseau.

37.702 Seminar in French Studies (s 03.00)

Reports and critical discussion of research papers on French literature. Different content fall and spring. Course may be taken for credit more than once.

75.523 Colloquium on France (s 03.00)

Lectures, reports and critical discussions on selected topics pertaining to France's current role in international politics; cultural trends; economic problems. In French. Course may be taken for credit more than once. *Prerequisite*: three years college French or equivalent.

GERMAN STUDIES (IN GERMAN)**37.530 German Structure and Problems in Teaching German (s 03.00)**

Problems in a descriptive analysis of the German structure, and the impact of new linguistic findings on the practice of teaching German.

37.531 History of the German Language (s 03.00)

Historic development of the German language. Scholarly methods applied in diachronic linguistics.

37.532 German Stylistics (s 03.00)

Style in general and German style features in particular. To familiarize the student in theory with what constitutes style levels in non-artistic usage and also to make him recognize the elements of style in literary works of art.

37.533 Topics, Motifs and Convention in German Literature (S 03.00)

Understanding and application of modern theoretical aspects reflecting present day thinking in German literary criticism.

37.535 German Literature in the Middle Ages (s 03.00)

Medieval literature in Germany from approximately 900 to 1400 A.D. Covers a period vital to the understanding of German intellectual development.

37.536 German Literature of the 17th and 18th Century (s 03.00)

Content alternates between (a) Barock period, and (b) Lessing and his time. Course may be taken for credit twice.

37.537 Classical Period in German Literature (s 03.00)

Content alternates between (a) Goethe and his time, and (b) Schiller and his time. Course may be taken for credit twice.

37.538 Nineteenth Century German Literature (s 03.00)

From romanticism to realism and subsequent developments to the beginning of World War I. Selected representatives such as Heine, Keller, Storm, Stifter, Fontane, the naturalists.

37.539 Contemporary German Literature (s 03.00)

Content changes each semester; emphasis on (a) novel, or (b) drama, or (c) poetry. Course may be taken for credit more than once.

37.703 Seminar in German Studies (s 03.00)

Reports and critical discussion of research papers on German literature. Different content fall and spring. Course may be taken for credit more than once.

75.533 Colloquium on Germany (s 03.00)

Lectures, reports and critical discussions on selected topics pertaining to Germany's current role in international politics; cultural trends; economic problems. In German. Course may be taken for credit more than once. *Prerequisite:* three years college German or equivalent.

RUSSIAN STUDIES (IN RUSSIAN)**37.540 Russian Structure (s 03.00)**

Contemporary and historical analysis of the phonology, morphology, and syntax of Russian.

37.541 History of the Russian Language (s 03.00)

Russian language through various stages of its development.

37.542 Russian Stylistics (s 03.00)

Word choice and word groupings. Figurative speech. Rhetorical figures. Grammatical elements of style. Style levels.

37.543 Russian Classics (s 03.00)

Content changes each semester; emphasis on life and works of major writers. Course may be taken for credit more than once.

37.544 Soviet Literature (s 03.00)

Content changes each semester; emphasis on one major genre or period of Soviet literature. Course may be taken for credit more than once.

37.545 Russian Drama (s 03.00)

Content changes each semester, emphasis on a major period or works of one outstanding Russian playwright. Course may be taken for credit more than once.

37.546 Russian Poetry (s 03.00)

Content changes each semester; emphasis on a major period or works of one outstanding Russian poet. Course may be taken for credit more than once.

37.704 Seminar in Russian Studies (s 03.00)

Reports and critical discussion of research papers on Russian literature. Different content fall and spring. Course may be taken for credit more than once.

75.543 Colloquium on Soviet Union (s 03.00)

Lectures, reports and critical discussions on Soviet political system; Russia and USSR. Continuity and change. Communist semantics as a propaganda means; cultural scene. In Russian. Course may be taken for credit more than once. *Prerequisite:* three years college Russian or equivalent.

SPANISH (LATIN AMERICAN) STUDIES (IN SPANISH)**37.550 Spanish Structure (s 03.00)**

Contemporary and historical analysis of the phonology, morphology, and syntax of Spanish. In English.

37.551 History of the Spanish Language (s 03.00)

Spanish language through various stages of its development in Europe and America.

37.552 Spanish Stylistics (s 03.00)

Word choice and word groupings. Figurative speech. Rhetorical figures. Grammatical elements of style. Style levels.

37.553 Spanish Classics (s 03.00)

Content changes each semester, emphasis on a period of Spanish literature from the medieval epic to the generation of 1898. Course may be taken for credit more than once.

37.554 Classics of Latin American Literature (s 03.00)

Content changes each semester, emphasis on a period of Spanish-American literature from the colonial era to the present time. Course may be taken for credit more than once.

37.555 Spanish Literature After the Civil War (s 03.00)

Content changes each semester, emphasis on a major contemporary writer. Course may be taken for credit more than once.

37.556 Twentieth Century Latin American Novel (s 03.00)

Content changes each semester; emphasis on a major contemporary novelist. Course may be taken for credit more than once.

37.705 Seminar in Spanish and Latin-American Studies (s 03.00)

Reports and critical discussion of research papers on Spanish and Latin-American literature. Different content fall and spring. Course may be taken for credit more than once.

75.553 Colloquium on Latin America (s 03.00)

Lectures, reports and critical discussions on peoples and governments of Latin America; cultural trends, political and economic problems; international relations. In Spanish. Course may be taken for credit more than once. *Prerequisite:* three years college Spanish or equivalent.

GENERAL STUDIES**37.519 Visiting Scholar's Seminar (s 03.00)**

Seminar with flexible content pertaining to one or more selected topics in foreign literatures, cultures, and linguistics. May be taken for credit more than once.

37.590 Independent Reading Courses in Language or Linguistics (s 01.00 through 06.00)

See Independent Reading Courses and Study Projects under General Curriculum Information.

37.690 Independent Study Project in Language or Linguistics (s 01.00 through 06.00)

See Independent Reading Courses and Study Projects under General Curriculum Information.

37.797 Master's Thesis Seminar (s 03.00 through 06.00)

Literature

Correspondence Directory: Frank Turaj, *Chairman*

C. Barry Chabot, *Director of Doctoral Studies*

Jo Radner, *Director of M.A. Studies*

Kermit W. Moyer, *Director of Undergraduate Studies*

William E. Stahr, *Teacher Education Advisor*

Field of Study

Literature

Full-time Faculty

Professor: Rudolph von Abele, Merritt C. Batchelder (Emeritus), Charles M. Clark, Pierre Han, Faye Kelly, Francis H. King (Emeritus), Charles R. Larson, Mary M. Patton (Emeritus), Jeanne A. Roberts, Frank Turaj, Louise M. Young (Emeritus)

Associate Professor: Edward L. Kessler, David B. Morris, Roberta Rubenstein, Henry S. Taylor, Shirley Yarnall

Assistant Professor: Arthur P. Bean, Thomas F. Cannon, Jr., C. Barry Chabot, J. Ronald Green, Jane E. Lewin, Kermit W. Moyer, Jo Radner, Bryan Reddick, William E. Stahr, Francis Zapatka

Visiting Professor: Arnost Lustig

Undergraduate Degree

Bachelor of Arts

Admission to the Major

Formal admission to the major requires a 2.00 average and approval of the department.

Composition and Reading Requirement—See Undergraduate Degree Requirements under General Academic Regulations.

Language Requirement—See Undergraduate Degree section under the College of Arts and Sciences.

Departmental Requirements

MAJOR COURSES

Majors will complete 12 courses, excluding Composition and Reading (23.100 and 23.101) or its equivalent. Three must consist of two courses of Studies in Literature (23.134 and 23.135) and Critical Reading (23.140). A minimum of two courses must be chosen from writing or other performance courses, independent reading courses or study projects, or reading list courses; but no more than three reading list courses and no more than three writing courses may be offered toward completion of the major.

Majors graduating after December, 1975, must take one course in each of the following four departmental categories: Studies in Major Literary Works and Writers (23.300 series); Studies in Literary Form (23.310 series); Studies of Literature in Historical Context (23.320 series); and Studies in Literary Ideas (23.330 series). In addition to a variety of critical approaches, these courses should represent study of a variety of literary genres and historical periods.

RELATED COURSES

The department has no "related fields" requirement as such. Students are encouraged to develop an understanding of the subject matter and methods of at least two other University departments and to relate literary study to other disciplines.

Electives

To complete a minimum of 32 courses.

Elementary School Teacher Training

Students majoring in education and selecting literature as an area of concentration should consult the Department of Education about appropriate courses.

Secondary School Teacher Training

The Department of Literature, in cooperation with the Department of Education, offers a curriculum which will lead to certification for teaching English at the high school level. Students who have selected this as their vocational objective should see the teacher education advisor in the Literature Department.

Film Program

A program in film, conducted through the Office of Interdisciplinary Studies, is offered jointly by the Department of Literature and the Department of Communication. (See Professor Green or Professor Turaj, Department of Literature.)

Department Honors

Interested students should consult the Director of Undergraduate Studies in Literature no later than the middle of the junior year.

Graduate Degrees

Master of Arts

Admission

In addition to the University's minimum requirements, the Literature Department normally requires that candidates for admission to the M.A. program have at least a 3.00 grade point

average (in a four point system) in undergraduate literature courses. The Graduate Record Aptitude Examination is recommended, but not required; if the test has been taken, the results must be forwarded to the Office of Admissions, Financial Aid, and Veterans Affairs, Programs and Services. An undergraduate major in literature is desirable, but applications from candidates who have majored in other fields will also be considered, provided that substantial study of literature has been done.

Students may apply to enter the M.A. program in literature in the fall, spring, or summer academic terms. Part-time as well as full-time students are welcome in the program. Degree work should be completed within three years of entrance.

Admission to or completion of the M.A. program does not ensure admission to the Ph.D. program.

Program

A student admitted to the Literature Department's M.A. program may opt for one of three different emphases within the program: (1) the Thesis Option, (2) the Non-Thesis Option, or (3) the M.A. with emphasis on creative writing. These are described briefly below.

Course Requirements

(1) At least two graduate seminars. (Students who entered the M.A. program prior to September, 1973, need take no more than one graduate seminar.) Normally these will be M.A. seminars (23.725 and 23.726). With the permission of the instructor, qualified M.A. students may be admitted to seminars offered in the Ph.D. program; in addition, graduate seminar credit will be given for participation in Folger Institute seminars.

(2) 18 additional hours (or 21, for students who entered the program prior to September, 1973) of graduate seminars, advanced literature courses (23.600, 23.610, 23.620, 23.630, 23.640, 23.650), independent reading courses or study projects, or independent study work coordinated with enrollment in "short courses" in the Ph.D. program. With the permission of his departmental advisor, up to six graduate credit hours may be taken outside the Literature Department, as an integral part of a student's program.

(3) Six additional hours as follows:

Thesis Option

A student electing to write a Master's Thesis will undertake a two-semester project, involving independent research under faculty direction (three credit hours) and thesis-writing (three credit hours, Master's Thesis, 23.797).

Non-Thesis Option

A student who chooses *not* to write a Master's Thesis must take six additional hours of course work of the kinds described in (2) above, and must also submit to the Director of M.A. Studies, for evaluation by the department faculty, a 15–20 page critical essay involving both research and independent thought. (The essay may represent a careful revision of a paper prepared in the normal course of M.A. degree study.)

Emphasis on Creative Writing

A student who has been admitted to this program will submit, in lieu of a critical thesis, a substantial piece of creative writing. Normally, therefore, the remaining six hours of this degree program will consist of a creative writing course (23.640) or independent project in the genre (fiction, poetry, drama, film script) of his thesis, and of three credit hours (23.797, Master's Thesis) spent writing the thesis. (Note: A student wishing to take this option must first be admitted to the department's general M.A. program; after six hours of graduate study of literature at The American University, a writing sample should be submitted to the department's Creative Writing Committee, which will determine whether a student may be admitted to the M.A. program with emphasis on creative writing.)

Comprehensive Examination

Each degree candidate must pass one written comprehensive examination, which will normally be taken in the last semester of study in the program.

Doctor of Philosophy

The Program for a Ph.D. in Literary Studies at The American University has been designed to provide maximum freedom for students and faculty, and maximum opportunity for individual

exploration with tutorial guidance. Specific requirements have been kept to a minimum, and enrollment is limited to ten new students a year.

Specific language requirements and the study of particular "related fields" are not prescribed. Each student, however, will pursue either a literature other than English, or another field pertinent to his literary exploration, such as political science, economics, anthropology or sociology. Students will choose a related field during their first year and will pursue it through courses and/or reading and research during the next two years.

The program is designed to emphasize the spirit of inquiry as well as the acquisition of knowledge. In place of the traditional dissertation a series of three special study projects will be developed and presented, one a year, over the three-year period.

Admission

Graduate Record Examination is recommended. At least two letters of recommendation are required. Whenever possible an interview should be arranged with the Director of Doctoral Studies.

General Requirements

An undergraduate degree, either with a major in literature or with substantial course work in literature.

Three years full-time residence at The American University.

Special Projects

Three special study projects which must deal with each of the following aspects of literature: (1) major writer; (2) role of convention; (3) interdisciplinary study.

Seminar Requirements

- (1) Theory of Literary Criticism
- (2) Theory of Literary History
- (3) Theory of Literary Form (two semesters)
- (4) Theory of Literary Ideas (two semesters)

(Courses in the Nature of Language and Creative Writing may be substituted for 3 or 4.)

Tutorials

Each student will be assigned a tutor with whom to plan reading, research, writing, and teaching. Students will have at least two different tutors in the three year period. Students will keep intellectual journals to maintain a record for tutors of their reading and thinking.

Teaching

The study and practice of teaching is an essential part of the program. Students will observe systematically during their first year and teach during the last two years.

Short Courses

A series of short courses will be offered each year. Students may participate as they wish.

Evaluation

Written evaluations by the Graduate Committee will be given students twice each year. For the purpose of record keeping, at each stage of evaluation each student will be said to have failed to complete, completed, or completed-with-distinction half a year's work.

Courses of Instruction

Undergraduate level course values are expressed as *course units* according to the following decimal notations: (c 00.25) = $\frac{1}{4}$ course unit; (c 00.50) = $\frac{1}{2}$ course unit; (c 00.75) = $\frac{3}{4}$ course unit; (c 01.00) = 1 course unit; (c 01.50) = $1\frac{1}{2}$ course units; etc.

Graduate level course values are expressed as *semester credit hours* according to the following decimal notations: (s 01.00) = 1 semester hour; (s 02.00) = 2 semester hours; (s 03.00) = 3 semester hours; etc. There are no fractional semester credit hours.

Undergraduate Courses

English for Foreign Students

See course offerings under College of Continuing Education, English Language Institute.

23.100 Composition and Reading I (c 01.00)

Training and practice in writing and critical reading. Concepts of language and rhetoric as the basis for effective expression in English. Includes techniques of library research, organization and writing of a documented research paper.

23.101 Composition and Reading II (c 01.00)

Critical reading with related writing assignments. 23.100 or its equivalent is recommended for background.

23.102-103 Composition and Reading I and II (c 01.00) (c 01.00)

23.102 and 23.103 are essentially the same as 23.100 and 23.101. The same amount of course unit credit is awarded upon completion. They are designed, however, for students who need special help in learning to write. The students will attend a workshop session each week where the teacher will provide extra instruction in the specific areas in which individual students are having difficulty.

23.104 Freshman Seminars in Literature and Other Disciplines (c 01.00)

An alternative to Composition and Reading courses listed above. Students may wish to consider the seminar as a means of fulfilling the University Composition and Reading Requirement. See the semester bulletins for course topics.

23.125 Advanced Writing Workshop (c 01.00)

Writing seminar concentrating on expository prose. *Prerequisite:* 23.100 and 23.101 or equivalent.

23.127 Introduction to Creative Writing (c 01.00)

Creative writing for beginning students who want to write poetry, fiction, drama, reportage and autobiography with specific assignments in each category. (With departmental permission, course may be repeated for credit.) *Prerequisite:* 23.100 and 23.101 or equivalent.

23.129 Introduction to the Creative Process in Literature (c 01.00)

Students will become involved with three distinct varieties of literary experience—criticism, creative writing, and oral performance—in order to facilitate the development of a rich, integrated encounter between reader and literary work, and to develop an understanding of the processes involved in the completion of such a work.

23.130 Honors English I (c 01.00)

Limited to first-year students, by invitation.

23.131 Honors English II (c 01.00)

Limited to first-year students, by invitation.

23.134-23.135 Studies in Literature (c 01.00) (c 01.00)

Introduces students to a representative variety of literary modes and critical approaches with some attention paid to the relation between literature and other disciplines. Lectures by the entire department faculty followed by discussion sections.

23.140 Critical Reading (c 01.00)

Concentration on means by which literary artists contemplate and comprehend human experience, artistic techniques which shape and achieve form. Required of all literature majors.

STUDIES IN MAJOR LITERARY WORKS AND WRITERS

(Note series below)

23.300 The Canterbury Tales (c 01.00)

A study of the narrative art and moral vision of Chaucer's poem. Directed readings in social, historical, and intellectual backgrounds. An introduction to the study of medieval literature.

23.300 Shakespeare I (c 01.00)

Selected earlier plays.

23.300 Shakespeare II (c 01.00)

Selected later plays.

23.300 Major British Writers I (c 01.00)

Intensive study of the principal writers of the British tradition: Chaucer, Spenser, Shakespeare, Bacon, Donne, Milton, Dryden, Swift, Pope, Johnson, and Boswell. Each writer is examined as a representative voice of his age and as an individual artist.

23.300 Major British Writers II (c 01.00)

Intensive study of principal writers in English tradition. Wordsworth, Coleridge, Byron, Shelley, Keats, Tennyson, Browning, Arnold, Shaw, Yeats and Eliot. Each writer will be examined as a representative voice of his age and as an individual artist. (Not offered in 1974-75.)

23.300 Milton (c 01.00)

The course will focus on Milton as a thinker and a poet. Selections from the prose works will be read and analyzed as background for Milton's thought. The majority of the semester will be devoted to a close reading of the poems, which will be studied with a view toward tracing Milton's development of form and his methods of projecting his world view. Requirements will include short analytical papers and tests. (Not offered in 1974-75.)

23.300 Pope and Byron (c 01.00)

This course will seek to develop a deep understanding of two major English poets, Alexander Pope (1688-1744) and George Gordon, Lord Byron (1788-1824), through a full study of their lives and writing. It will also seek to explore two basic subjects with which they are closely associated: 1) the contrasting aesthetics of Classicism and Romanticism, and 2) the nature and methods of verse satire.

23.300 Studies in Dostoevsky (c 01.00)

Selected fiction of Dostoevsky: intensive study of one of the major novels (Spring 1974: *Brothers Karamazov*) and some of the minor work (Spring 1974: selected short stories). The course is designed primarily for Literature Department upperclassmen, but is open to students from any department.

23.300 Fictional Worlds: Conrad and Hardy (c 01.00)

A close, chronological reading of the novels and stories of Conrad and Hardy, together with an investigation of their letters, biographies and, in Hardy's case, the poetry, to recover the underlying myths which generate and control the worlds of their fiction. Readings will include Hardy's *Under the Greenwood Tree*, *Far From the Madding Crowd*, *Mayor of Casterbridge*, *Jude* and selected poetry; Conrad's *Almayer's Folly*, *Lord Jim*, *Nostramo*, *Secret Agent*, *The Rover* and selected tales. The focus will be on the various artistic decisions these authors made, and what these decisions tell us about their modes of being-in-the-world. (Not offered in 1974-75.)

23.300 George Bernard Shaw: Social Playwright (c 01.00)

The COMPLETE SHAW—Playright, socialist, pamphleteer, revolutionist, creative evolutionist, and even poet. All the plays will be read and as many political/social works as seem practicable. In addition, parallel reading of biographical and critical material will be assigned. (Not offered in 1974-75.)

23.300 Studies in the Work and Influence of Georg Büchner (c 01.00)

An essentially bilingual effort to survey the canon of Büchner's work, and to understand him as a major precursor of much in 20th-century symbolist, expressionist, and absurdist literature. Reading of *Danton's Death*, *Leonce and Lena*, *Lenz*, and *Woyzeck*, plus other work by and about him; exploration of his influences on such writers as Strindberg, Kaiser, Toller, Wedekind, Ionesco, Adamov, Beckett. Some consideration to the musical and painterly atmosphere of the expressionist period (Alban Berg, Gustav Klimt, Ludwig Kirchner, Oskar Kokoschka, Anton Webern, Egon Schiele, etc.). Reading knowledge of German highly desirable, but *not required*. Seminar technique; group discussion paramount. One paper on a selected topic. No examination. *Permission of the instructor only*. (Not offered in 1974-75.)

23.300 An Introduction to Ulysses (c 01.00)

Ulysses is to be intensively explored as a novel in which all crucial novelistic problems of the 20th century converge: point-of-view, treatment of time, the role of style, fragmented narrative, use of myth, intrusion of history into fiction, autobiographical esotericism, and of course first and foremost the problem of the reader vs. the novel, the novel vs. the reader. Seminar setting;

discussion paramount. One take-home final. For the mature student. Recommended: Richard Ellman, *James Joyce*; also, by JJ, *Dubliners*, Stephen Hero, *Portrait*. Enrollment strictly limited to twenty students.

23.300 An Introduction to *Finnegans Wake* (c 01.00)

This course is, and is no more than, the setting-up of a framework within which the instructor and a group of students can make the attempt to learn how to approach the *Wake* most fruitfully. It is, in other words, intended to offer the opportunity to acquire the elements of a methodology for reading this difficult and endlessly rewarding book. Especially recommended to students interested in the notion of linguistic play. (Not offered in 1974-75.)

23.300 Studies in Thomas Mann (c 01.00)

Intensive reading in selected major and minor works by Thomas Mann, with occasional collateral reading of books by other 20th-century German novelists. Readings will be done in translation, but reading knowledge of German would be helpful. Texts for Spring 1974: *Buddenbrooks*, *The Magic Mountain*, and *Doctor Faustus*. (Not offered in 1974-75.)

23.300 Eliot and Stevens (c 01.00)

An in-depth study of these two major American poets. Students will be required to read the collected poems of both poets, as well as some selected secondary material. The course deals with differences in poetic aims and subject matter, as well as technique. Frequent classroom explications and short analytic papers required. (Not offered in 1974-75.)

23.300 The Drama of Samuel Beckett (c 01.00)

Examination of Beckett's development as a dramatist, from *Waiting for Godot* through *Not I*. Readings will include radio and TV plays as well as stage plays. Seminar format, take-home final.

23.300 The Films of Jean-Luc Godard (c 01.00)

A close look at about ten of Godard's films, with emphasis on his politics and cinematic terminology and aesthetics. Various methods will be employed, involving such disciplines as anthropology, political science, comparative literature, psychology and philosophy. (Not offered in 1974-75.)

STUDIES IN LITERARY FORM

(Note series below)

23.310 Introduction to American Folklore (c 01.00)

Survey of the entire field: folk literature, ballads, songs, tales, proverbs, proverbial speech, epitaphs, names, children's folklore, riddles, rhymes, folk history, folk medicine, weatherlore, folk industry, folk arts and crafts, folk architecture, folk belief and superstitions, regional folklore, family folklore.

23.310 The Literary Idea as Form (c 01.00)

The subject of this study will be the relationship between idea and form in literature. The writers and works covered will vary but will probably include Keats, Dante, Stendhal, Pope, Shakespeare, Faulkner, Song of Roland, *Tristan and Iseult*, some Symbolist poetry. The seminar method will be used. Students will present short papers as well as prepare a more substantial paper by the end of the semester. (Not offered in 1974-75.)

23.310 The Development of the Novel (c 01.00)

The theory of the novel. A study of the form of the novel from its beginnings down through Robbe-Grillet. Readings in selected novelists and critics of the novel. The emphasis will be on the European novel. A lecture course. (Not offered in 1974-75.)

23.310 Elements of Poetry (c 01.00)

An introduction to the study of poetry as a literary genre. Aimed primarily at undergraduate majors who have completed Studies in Literature, the course is also open to graduate students and non-majors. (Not offered in 1974-75.)

23.310 English Novel I: 18th Century (c 01.00)

Reading and discussion of the major novelists of 18th century England: DeFoe, Richardson,

Fielding, Smollett, and Sterne. Each novel is studied as a unique fiction and as a contribution to the novel.

23.310 English Novel II: 19th Century (c 01.00)

Reading and discussion of such major novelists as Dickens, Thackeray, Eliot, Trollope, and Hardy. The emphasis will be on form and technique.

23.310 Tolstoy (c 01.00)

Selected fiction of L. Tolstoy: *Anna Karenina* (Fall 1974). Intensive study of *Anna Karenina* with emphasis on the work as a novel and of some of the minor work (Fall 1974: selected short fiction). Attention given, when appropriate, to the work in relation to literature other than Russian and to disciplines other than literature.

23.310 Retrospective Narrative (c 01.00)

Close reading of a selection of American retrospective narratives such as *Moby Dick*, *Walden*, *Huckleberry Finn*, *A Farewell to Arms*, and *In Cold Blood*. Develop insight into nature of storytelling and relationship of storytelling to other forms of discourse as well as to confront some major works of literature for their own sake. (Not offered in 1974-75.)

23.310 A Critical Approach to the Cinema (c 01.00)

Media theory. Development of an approach to film viewing. Practical criticism. Place that movies have within cultural traditions and conventions.

23.310 Independent Filmmakers (c 01.00)

Sometimes called "underground," "experimental," "avant-garde," and "New American Cinema," independent films are those produced outside the established filmmaking industry. We will view, discuss, read about, and write about the films of four major independent filmmakers, such as Stan Brakhage, Hollis Frampton, Jordan Belson, and Jean-Luc Godard (with the Dziga-Vertov group). We will trace the development of these artists by close study of selected films and writings, and place the artists in context with each other and with independent and non-independent films in general.

23.310 Autobiography and Biography (c 01.00)

An introduction to non-fiction in the form of selected examples of autobiography and biography as a literary mode.

STUDIES OF LITERATURE IN HISTORICAL CONTEXT

(Note series below)

23.320 The Place of Literature in Early Celtic Society (c 01.00)

Will show the vital importance of literature in all aspects of early Indo-European society—religion, magic, government, law, education, etc.—by examining the powers of the poet among the medieval Irish and Welsh. Course materials will include readings in history, archaeology, social structure, art, and myth, as well as major sagas and poems of Ireland and Wales.

23.320 Medieval Literature (c 01.00)

The beginnings of literature in Western Europe. A study of that literature as the definition, celebration, and examination of the aesthetic and ethical values of medieval culture. Medieval epic, drama, lyric, and romance *in translation*. An open enrollment lecture course.

23.320 History of Literary Criticism (c 01.00)

Selected reading in literary criticism from Plato to T. S. Eliot. (Not offered in 1974-75.)

23.320 Eighteenth Century Literature (c 01.00)

Outstanding authors and dominant literary forms in the neo-classical tradition. Focus on Dryden, Swift, Fielding and Johnson. (Not offered in 1974-75.)

23.320 American Literature I—to 1865 (c 01.00)

Survey of American literature (major and minor writers) with special emphasis on its development as a continuing process. A lecture course. Open enrollment.

23.320 American Literature II—from 1865 (c 01.00)

Survey of American literature (major and minor writers) with special emphasis on its development as a continuing process. A lecture course. Open enrollment.

23.320 National American Literature (c 01.00)

A literature course with substantial interdisciplinary overtones (political science, American history, and literature). A study of the century of effort to create deliberately a recognizably American literature as a cultural proof of nationhood. Writers include Cooper, Simms, Emerson, Hawthorne, Whitman, Garland and Howells. (Not offered in 1974–75.)

23.320 Poetry in America (c 01.00)

Consideration, by close reading of selected poets, of some of the characteristics that help define American poetry.

23.320 Romantic Literature (c 01.00)

Elements of Romanticism, with close attention to individual literary artists. Fall 1974: Wordsworth, Coleridge, and Keats. Spring 1975: William Blake.

23.320 Victorian Poetry (c 01.00)

A study of key Victorian poets and their use of poetic form. Emphasis on Tennyson and Browning, but discussions will include poems by Arnold, Hopkins and Hardy. Although the course deals with poetic techniques, other matters are discussed: social aspects of literature, conflict between religion and science, relation of artist to society, the aesthetic process, the poets' use of the past and tradition, and ways Victorian poetry foreshadows modern poetry. (Not offered in 1974–75.)

23.320 The Irish Renaissance (c 01.00)

Yeats, Joyce, Synge, O'Casey, Frank O'Connor, Liam O'Flaherty and other major writers of the modern Anglo-Irish literary tradition. Some attention will be paid to the recent history of Ireland, and to the relationship between literary and political nationalist movements. (Not offered in 1974–75.)

23.320 The Modern French Novel: Perspectives on Chaos (c 01.00)

Selected modern French novels, in translation, which have been described by such terms as "expressionistic," "marxist," "surrealist," "existentialist," and "phenomenological." Many writers of this period share a common concern with how an individual perceives reality, how he relates to himself and to the world, and how by his actions he tries to inform what seems a chaotic and inhuman universe with order and meaning.

23.320 Black American Writing (c 01.00)

Survey of black American literature in the new world—the United States and the Caribbean—and the influences Africa has made on this literature: Phillis Wheatley through Malcolm X. (Not offered in 1974–75.)

23.320 Russian Literature in Translation (c 01.00)

Selected novels and stories by Lermontov, Gogol, Turgenev, Dostoevsky, Tolstoy, Chekov, Sholokhov, Solzhenitsyn. An overview of 19th and 20th century Russian literature, with attention to fictional technique and historical perspective. (Not offered in 1974–75.)

23.320 Modern Drama (c 01.00)

Modern drama as written literature, beginning with Ibsen and concluding with the most recent dramatic movements: theatre of the absurd, theatre of cruelty, etc. Emphasis will be placed on the historical development of specific dramatic movements: realism, naturalism, symbolism, expressionism, existentialism, etc., and *not* on the aspects of dramatic production.

23.320 Modern Criticism (c 01.00)

Survey of key works influencing contemporary trends in literary theory and criticism. Prior experience in college-level literature courses strongly recommended. Spring 1974: critics to be read include Coleridge, Richards, Burke, Fiedler, Auerbach, and Frye. (Not offered in 1974–75.)

23.320 American Poetry Since 1950 (c 01.00)

An examination of the major figures and movements in the poetry of the period, with a concentration on Robert Lowell, Theodore Roethke, Richard Wilbur, James Dickey, and Gary Snyder.

STUDIES IN LITERARY IDEAS

(Note series below)

23.330 Shakespeare and Politics (c 01.00)

Study of Shakespeare's dramatic portrayal of the struggle for political power. The position and duty of a king. Plays to be covered: *King John*, *Henry VI*, 3 parts, *Richard III*, *Richard II*, *Henry IV*, Parts I and II, *Henry V*, *Coriolanus*, and *Julius Caesar*. Includes considerable reading in historical and philosophical background material.

23.330 Ecological Patterns in Literature (c 01.00)

The course will be a chronological study of changing visions of human beings in relation to their environment and to the plant and animal worlds. The study will be based on literary works from different periods of Western European literature.

23.330 Individualism in American Literature (c 01.00)

An examination of the distinctive individualism reflected in American letters and the anti-nomianism upon which it is based. A study of two themes underlying all major American works: the cultivation of non-rational knowledge; the rejection of objective values. (Not offered in 1974-75.)

23.330 Victorian Literature: Response to Crisis (c 01.00)

English poetry and non-fictional prose from 1830-1870 expressed writers' reactions to a society in crisis—and to their own personal crises as well. Shaken by the ravages of industrialism, the corrosion of religious values, the weakening of traditional sources of authority, sensitive individuals lost their sense of meaning and purpose and then recovered to write about it. Tennyson, Browning, and Arnold in poetry, Carlyle, Ruskin, Newman, Mill, and Arnold in prose will be read as spokesmen for a society struggling to retain control of itself.

23.330 The Abnormal Point of View (c 01.00)

Selected novels and plays in which the action is perceived or dramatized through an "abnormal" point of view. The emphasis will be on the technical aspect of point of view, the author's resulting world-view, and the relationship between the two. The use of madness or abnormal perception as both a theme and an underlying technique will be explored. Readings will be primarily but not exclusively from twentieth century literatures, including works by Shakespeare, Dostoevsky, Kafka, Pirandello, Woolf, Faulkner, and Lessing.

23.330 Introduction to African Literature (c 01.00)

An introduction to contemporary African writing: the novel, the short story, poetry, and drama. An emphasis will be placed upon the image of African cultures as depicted in these writings. (Not offered in 1974-75.)

23.330 The Novel in the Third World (c 01.00)

A study of the novel from the Third World: Africa, Asia, the Caribbean, Afro-American, American Indian, and the South Pacific. Special emphasis on the way culture dictates literary forms.

23.330 Directions in Modern Fiction (c 01.00)

Selected fiction which embodies distinctive threads of twentieth century fiction. The emphasis will be on both the underlying philosophical premises (such as existentialism) and technique (particularly point of view). Readings will include works by such writers as Kafka, Golding, Camus, Faulkner, Robbe-Grillet, Lessing, and Bellow. (Not offered in 1974-75.)

23.330 Fitzgerald and Hemingway: The Literature of Loss (c 01.00)

Study of fiction of Fitzgerald and Hemingway with emphasis upon common theme of loss in their work. Relationship between the two men and their place within literary period of the twenties and thirties will also be explored through main emphasis upon thematic analyses of specific works. (Not offered in 1974-75.)

23.330 History as Theme in American Literature (c 01.00)

Study of literary works in which the force of history functions as a major theme or in which the relationship between an individual and the force of history is central. An attempt to analyze metaphors of history as they emerge from and shape such works of literature as Hawthorne's *Scarlet Letter*, Thoreau's *On Civil Disobedience*, Melville's *Benito Cereno*, Warren's *All the King's Men*, Faulkner's *The Bear*, Fitzgerald's *Tender is the Night*, Mailer's *Armies of the Night*. A lecture course. Open enrollment. (Not offered in 1974-75.)

23.330 Psychoanalysis and the Literary Process (c 01.00)

The psychology will be psychoanalytic, of the Freud, Hartmann, Erikson line (with some attention to the object relations theories of the British school, particularly H. Guntrip); the literature, English and American, so as to avoid the problems of translation. Because course is interdisciplinary, the reading will be heavy; the students are encouraged to have read some of the psychoanalysis, especially Freud's *Introductory Lectures*. Emphasis on understanding and coming to terms with the world as perceived by an "Other."

STUDIES IN MAKING AND PERFORMING LITERATURE

(Note series below)

23.340 Creative Writing (c 01.00)

Training in writing prose and poetry through individual literary projects suited to student's needs and interests. There is a special section in which students may get training in film script writing. *Prerequisite*: permission of instructor. (May be repeated for credit.)

67.170 Oral Interpretation (c 01.00)

Analysis, interpretation, and practice in expressive reading of literature to develop ability in sharing literature with an audience. (See Theatre Program.)

HISTORY OF ENGLISH LANGUAGE**23.350 History of the English Language (c 01.00)**

Development of the language from Old English to Modern English, with special studies on phonology, morphology, semantics, and vocabulary.

READING COURSES

The department offers two types of reading courses. Both allow the student to read independently and at his own pace.

23.380 Reading Lists (c 01.00)

Student reads one of the 23 prepared lists covering major historical periods in literary history. Except for one final examination the course is fully independent. The department will help students enrolled for the same lists to contact one another. Students must come to the department office to get standard departmental lists and course instructions, and to make arrangements for registration.

23.390 Independent Reading Course in Literature (c 00.25 through 02.00)

The student, in consultation with a member of the department, before registration, prepares a reading list for an area of his particular interest. See Independent Reading Courses and Study Projects under General Academic Regulations. For further information or instructions consult the department office.

23.490 Independent Study Project in Literature (c 00.25 through 02.00)

See Independent Reading Courses and Study Projects under General Academic Regulations.

INTERNSHIP PROGRAM**23.491 Literature and the Community (c 01.00)**

Participants do field work, as volunteers, in a governmental or private agency, attend a weekly seminar, and complete reading and writing assignments that bring together literary study and experience in the field.

23.491 English Internship in Community Teaching (c 01.00)

Practicum in relating literature to groups in non-academic situations (old people, deprived teenagers, probationers, etc.). One seminar a week (resources, problem solving, interdisciplinary assistance).

Graduate Courses

All courses listed below carry graduate credit. .500 level courses are open to graduate and qualified undergraduate students. Undergraduate students in .500 level courses receive one course unit for 3 or 4 semester hour credits. Courses at the .600 and .700 levels are open to graduate students only.

23.590 Independent Reading Courses in Literature (s 01.00 through 06.00)

See Independent Reading Courses and Study Projects under General Academic Regulations.

23.600/.610/.620/.630/.640/.650

Titles identical with those listed under 23.300/.310/.320/.330/.340/.350. Graduate students who enroll in any of these courses should consult the instructor about special requirements.

23.690 Independent Study Project in Literature (s 01.00 through 06.00)

See Independent Reading Courses and Study Projects under General Academic Regulations.

STUDIES IN LITERARY MODES

(Note series below)

23.725 The Comic Vision (s 03.00)

The purpose of this seminar will be to formulate the nature of the comic vision in its manifestation from ancient to modern times. Emphasis will be placed not only upon critical theory but also upon individual works. Students taking the course should have carefully studied the *Odyssey* before the beginning of the term.

23.725 Studies in Short American Fiction (s 03.00)

A study of the short stories by Nathaniel Hawthorne, Herman Melville, Henry James, Sherwood Anderson, and Flannery O'Connor.

23.725 The Novel: Formal Theory and Criticism (s 03.00)

Story, narrator, reader, and author; point of view, dramatic irony, tone; narrative language, fictional universe—the basic terms of formal narrative criticism as applied to the study of the novel. Theoretical and practical criticism.

STUDIES IN MAJOR WRITERS**23.726 W. B. Yeats (s 03.00)**

Intensive study of Yeats's poetry, prose, and drama.

23.797 Master's Thesis (s 03.00 through 06.00)**23.750 Theory of Literary Criticism (s 03.00)**

Required of Ph.D. candidates. Open to other graduate students by permission. (Fall 1974)

23.753 Theory of Literary History (s 03.00)

Required of Ph.D. candidates. Open to other graduate students by permission. (Spring 1975)

23.756 Theory of Literary Form (s 03.00)

Required of Ph.D. candidates. Open to other graduate students by permission. (Fall 1974)

23.757 Theory of Literary Form (s 03.00)

Required of Ph.D. candidates. Open to other graduate students by permission. (Spring 1975)

23.758 Theory of Literary Ideas (s 03.00)

Required of Ph.D. candidates. Open to other graduate students by permission. (Not offered in 1974-75.)

23.759 Theory of Literary Ideas (s 03.00)

Required of Ph.D. candidates. Open to other graduate students by permission. (Not offered in 1974–75.)

See Also: Performing Arts and Interdisciplinary Listings

The following courses may be taken for credit toward a literature major:

- 67.170 Oral Interpretation (c 01.00)
- 67.101 Introduction to Performing Arts: Theatre (c 01.00)
- 67.394 Modern American Theatre and Drama (c 01.00)
- 67.550–551 History of Theatre I, II (s 03.00) (s 03.00)
- 67.556 History of American Theatre (s 03.00)
- 67.560 Creative Theory and Criticism (s 03.00)

75.700 The Folger Seminar in Renaissance and Eighteenth-Century Studies

Each semester three graduate seminars are offered. Graduate students at The American University are eligible to participate and should consult either the Chairman of the University's Interdisciplinary Studies Committee or the department's Director of M.A. Studies. May be taken more than one semester.

Mathematics and Statistics

Correspondence Directory: Basil P. Korin, *Chairman*

Fields of Study

Algebra, analysis, number theory, differential equations, applied mathematics, numerical analysis, probability, statistics, computer science.

Full-time Faculty

Professor: Mary W. Gray, Richard A. Holzsager, Walter W. Jacobs, Basil P. Korin, Nathaniel Macon, Grace S. Quinn (Emeritus), Steven H. Schot, John H. Smith (Emeritus in Residence)

Associate Professor: David S. Crosby, Edmund B. McCue

Assistant Professor: Austin M. Barron, I-Lok Chang, Martin Freeman, Charles B. Hallahan, Claire T. Machlin, David P. Mather, Judith Steere Sunley, Howard Wilson

Undergraduate Degrees

Bachelor of Science**Admission to the Major**

Freshmen and transfers will be counseled by the department. Formal admission to the majors in Mathematics and Statistics is allowed after the student has completed Calculus I, II, III. Admission to other majors in this department requires one year of the appropriate Calculus courses. Admission to the Computer Science major also requires 41.260 and 41.261.

For admission to the majors the above courses must be passed with "C" or better, and the student must have at least a 2.00 cumulative average.

Composition and Reading Requirement—See Undergraduate Degree Requirements under General Academic Regulations.

Language Requirement—See Undergraduate Degree section under the College of Arts and Sciences. There is no department requirement beyond the College requirement. However, French, German, or Russian is recommended, especially for students planning graduate work.

Department Requirements

All courses in this department required for the major must be passed with "C" or better. The student must have at least a 2.00 cumulative average in all registrations in courses in this department.

MATHEMATICS MAJOR*MAJOR COURSES:*

41.111, 41.222, 41.223, 41.310, 41.322, 41.512, 41.513, 41.520, 41.521. Two courses selected from 41.321, 41.440, 41.460, 41.461, 41.474, 69.502, 41.515, 41.540, 41.550, 41.551, 41.570, 41.612, 41.613.

Students, especially those planning graduate work in mathematics, are encouraged to select additional courses in consultation with advisor. Students planning graduate work in mathematics are advised to take 41.512 and 41.513.

RELATED COURSES REQUIRED:

Three courses in a field of application, to be selected in consultation with advisor. This requirement may be waived for students with more than one major in this department and for students obtaining secondary teaching certification in mathematics.

APPLIED MATHEMATICS MAJOR*MAJOR COURSES:*

41.111, 41.222, 41.223, 41.310, 41.322, and either 41.321, 41.550, 41.551 or 41.260, 41.261, 41.460. Three additional courses in the department, as approved by the advisor.

SUPPORTING COURSES:

Three courses in a field of application, to be selected in consultation with the advisor. This requirement may be waived for students with more than one major in this department.

STATISTICS MAJOR

Two options exist under the B.S. in Statistics: Mathematical Statistics and Applied Statistics. The Mathematical Statistics option emphasizes statistical theory and application and prepares students for graduate work in Statistics. The Applied Statistics option emphasizes statistical methodology and requires substantial work in a related field. (In most cases, satisfaction of minor additional requirements in the related field will constitute a second major.) While the Applied Statistics option does not prepare a student for graduate work in Statistics, it is a highly useful background for graduate work in the related field area.

Mathematical Statistics*MAJOR COURSES:*

41.111, 41.222, 41.223, 41.310, 41.322, 41.474, 69.502; two additional courses selected from 69.530, 69.531, 69.515, 69.516, 41.576, 69.510, 69.511; two additional approved departmental courses.

Applied Statistics*MAJOR COURSES:*

41.101, 41.102, 69.202, 41.260, 41.310, 41.474, 69.502; either 69.300 or 69.301, or 69.514; three additional approved departmental courses.

RELATED COURSES:

At least five approved courses in a related field, such as Anthropology, Psychology, Sociology, Economics, Biology, Business Administration, or Computer Science. (The five courses may be selected from more than one teaching unit.)

COMPUTER SCIENCE MAJOR*MAJOR COURSES:*

41.260, 41.261, 41.360, and three approved courses selected from 41.460, 41.461, 41.530, 41.560, 41.564, 41.565, 41.566, 41.567, 41.568, 41.569, and 41.596.

MATHEMATICS COURSES:

One year of Calculus (41.111-.222 or 41.101-.102), 41.310 and one additional course at the .200 level or above.

RELATED COURSES REQUIRED:

Three additional courses in computer science, mathematics and statistics; or three courses in a related field of application. These courses should be selected in consultation with a department advisor.

Graduate Degrees

Candidates for graduate degrees in all departments are subject to University Graduate Degree Requirements (see Graduate Degree Requirements under General Academic Regulations). Requirements given below list the minimal requirements from a departmental point of view. University requirements that exceed these requirements are nonetheless binding upon the student.

Master of Arts in Mathematics

Under this degree, three options are open. The student's program may emphasize Mathematics or Applied Mathematics.

Course Requirements

(1) Thesis option: 8 approved graduate courses plus 6 credit hours of 41.797, Master's Thesis Seminar in Mathematics and Statistics.

(2) Non-thesis option: 8 approved graduate courses plus 6 credit hours of 41.700, Seminar in Mathematics. Topic of study in 41.700 to be chosen by consultation between student and faculty member.

Comprehensive Examination

The student must take a written comprehensive examination in one of the following fields: Mathematics, Applied Mathematics, or Computer Science.

Other Requirements

Proficiency is required in Russian, German, French, or computer language. Thesis and oral defense of thesis is mandatory in option (1). An oral presentation of the research work undertaken in option (2) is required.

A list of courses from which the 8 approved courses must be chosen for each of the major areas is available in the Department office. Also, reading lists for the comprehensive examinations are available.

Master of Arts in Statistics

Two programs are available under the Master of Arts in Statistics: Mathematical Statistics and Applied Statistics. The Mathematical Statistics program emphasizes work in statistical theory and is recommended for students planning further graduate work in Statistics. The Applied Statistics program requires a foundation in statistical theory with emphasis on statistical methodology.

Course Requirements

While specific courses are not required, typical programs would be as follows:

Mathematical Statistics: 69.530-531, 41.510, 41.574, 69.584, 69.600, 69.610, and two additional courses in Mathematics or Statistical Theory.

Applied Statistics: 69.530-531, 41.574, 69.584, 69.600, and four additional courses in statistical methods and applications (including approved related courses given in other teaching units).

In either program, qualified students may take up to 12 hours as Independent Research Projects, including work study arrangements.

Thesis or Research Project

Under either program, one of the following must be satisfied:

- (1) Master's Thesis in Statistics (3 credit hours) or
- (2) Independent Research Project or Seminar (3 credit hours)

Written Comprehensives

A comprehensive examination (administered in two parts) is required.
Mathematical Statistics: 69.001, Statistical Theory and Probability.
Applied Statistics: 69.005, Statistical Theory and Applications.

Other Requirements

Under either program, (1) a tool of research selected from French, German, Russian, and computer language, and (2) an oral presentation and defense of the thesis or research project are required.

Master of Science in Computer Science

Course Requirements

A minimum of eight approved graduate courses, six of which must be in computer science. The remaining courses may be chosen from graduate level offerings in computer science, mathematics, statistics, or a related field. These choices must be approved *in advance* by an advisor.

Prerequisites for graduate courses may be satisfied with either approved undergraduate courses or appropriate professional experience.

Thesis or Research Project

One of the following options must be chosen:

- (1) Thesis: The student must write a Master's Thesis of sufficient scope to earn six hours of graduate credit.
- (2) Research Project: The student must complete six hours of Independent Research Project or Seminar.

Written Comprehensive

A two-part written comprehensive examination (41.050) must be passed.

(1) Principles of Computer Science: Topics include material such as that contained in the courses Systems Programming, Computer Organization, and the year sequence survey Survey of Computer Science.

(2) Field of Specialization: Areas of specialization include:

- (a) Metatheory (Automata Theory, Formal Language Theory)
- (b) Artificial Intelligence (Artificial Intelligence, Theorem Proving)
- (c) Systems Software (Organization of Computer Files, Operating Systems, Computer Graphics)
- (d) Information Storage and Retrieval (Organization of Computer Files, Information Storage and Retrieval)
- (e) Theory of Programming (Programming Languages, Introduction to Compilers)

Other Requirements

- (1) An approved tool of research.
- (2) An oral presentation of the thesis or research project.

Doctor of Philosophy in Mathematics

Course Requirements

Minimum of 72 hours of approved graduate work is required including 12 semester hours in 41.799 Doctoral Dissertation Seminar in Mathematics and Statistics. In addition to the Doctoral Dissertation Seminar, at least 30 semester hours must be completed in residence at The American University.

Examination Requirements

A qualifying examination must be taken before completion of 24 credit hours of course work in the doctoral program. Four comprehensive examinations are required, three written and one oral. The fields for the written examinations are:

- 41.005 Real and Complex Variables
- 41.006 Modern Algebra and Linear Algebra

and a third field chosen from the following:

- 41.018 Numerical Analysis
- 41.026 Topology
- 41.027 Applied Mathematics
- 41.028 Operations Research
- 41.029 Probability and Statistics
- 41.030 Computer Science

Other Requirements

Proficiency is required in two tools of research chosen from French, German, Russian, and computer language. The dissertation must be directed by a fulltime faculty member and an oral defense of the dissertation is required.

Doctor of Philosophy in Statistics

Course Requirements

A minimum of 72 semester hours of approved graduate work is required, which includes at least 12 semester hours in 41.799 Doctoral Dissertation Seminar in Mathematics and Statistics. At least 30 semester hours (plus dissertation credit) must be completed in residence at The American University.

Examination Requirements

A qualifying examination must be taken before completion of 24 credit hours of course work in the doctoral program. Four comprehensive examinations are required, three written and one oral. The fields for the written examinations are:

- 69.002 Advanced Statistical Theory (administered in two parts)
- 41.024 Probability

and a third field chosen from the following:

- 69.028 Linear Estimation
- 69.029 Multivariate Analysis
- 69.030 Decision Theory
- 69.020 Theory of Sampling
- 41.023 Stochastic Processes

Other Requirements

Proficiency is required in two tools of research chosen from French, German, Russian, and computer language. The dissertation must be directed by a fulltime faculty member and an oral defense of the dissertation is required.

Courses of Instruction

Undergraduate level course values are expressed as *course units* according to the following decimal notations: (c 00.25) = $\frac{1}{4}$ course unit; (c 00.50) = $\frac{1}{2}$ course unit; (c 00.75) = $\frac{3}{4}$ course unit; (c 01.00) = 1 course unit; (c 01.50) = $1\frac{1}{2}$ course units; etc.

Graduate level course values are expressed as *semester credit hours* according to the following decimal notations: (s 01.00) = 1 semester hour; (s 02.00) = 2 semester hours; (s 03.00) = 3 semester hours; etc. There are no fractional semester credit hours.

Undergraduate Courses

MATHEMATICS

41.100 Finite Mathematics (c 01.00)

Sets, real numbers, solution of equations, inequalities, probability, functions, elementary linear algebra. Applications to biology, business and social sciences. No credit towards a mathematics major.

41.101 Applied Calculus I (c 01.00)

Continuity, limits, differentiation and integration. Applications to biological, social and environmental sciences and business.

No credit towards a mathematics, mathematical statistics, or applied mathematics major, but together with 41.102 meets calculus requirement for applied statistics or computer science majors. *Prerequisite:* 41.100 or permission.

41.102 Applied Calculus II (c 01.00)

Calculus of several variables, matrices, series and differential equations. Applications to biological, social and environmental sciences and business. No credit towards a mathematics, mathematical statistics, or applied mathematics major, but together with 41.101 meets requirement for applied statistics or computer science majors. *Prerequisite:* 41.101 or 41.111.

41.105-106 The Nature of Mathematics I, II (c 01.00) (c 01.00)

A nontechnical course. Interplay of mathematics with the natural, social, and physical sciences and the humanities.

41.109 Basic Mathematics (c 00.25 through 01.00)

This course is designed for those with deficiencies in their mathematics background which affect their ability to perform adequately in other mathematics courses. It will be divided into four parts with the student electing those portions needed to complete his background. The student may register for 00.25, 00.50, 00.75, or a full course unit credit. The parts will be: (1) Arithmetic Operations, (2) Basic Algebra, (3) Intermediate Algebra, and (4) Basic Geometry. Texts will be chosen to facilitate the student's individual work efforts. The course may be taken on a pass/fail basis only.

41.110 Fundamentals of Mathematics (c 01.00)

Fundamentals of sets, functions, algebra, and trigonometry intended for students planning to continue in 41.111. *Prerequisite:* three years of high school mathematics.

41.111 Calculus I (c 01.00)

Real numbers; coordinate systems; functions; limits and continuity; differentiation and applications; trigonometric functions; indefinite and definite integration and applications; fundamental theorem of integral calculus. *Prerequisite:* 41.110 or four years of high school mathematics.

41.222 Calculus II (c 01.00)

Techniques of integration; calculus of transcendental functions; infinite series; power series representations; analytic geometry. *Prerequisite:* 41.111.

41.223 Calculus III (c 01.00)

Vectors; functions of several variables; partial differentiation; multiple integrals. *Prerequisite:* 41.222.

41.310 Linear Algebra (c 01.00)

Vector spaces, systems of linear equations, solutions by matrices, determinants, linear transformations, algebraic forms. *Prerequisite:* 41.102 or 41.222 or to be taken concurrently with 41.222.

41.321 Differential Equations (c 01.00)

First-order first-degree equations, linear equations of n th order with constant coefficients, Laplace transforms, applications of mechanics and electrical circuits, special equations of higher order, solution in series. *Prerequisite:* or *Corequisite:* 41.223.

41.322 Calculus IV (c 01.00)

Point sets in several variables, partial derivatives, Lagrange multipliers, Jacobians, implicit and inverse transformation theorems, quadratic forms, vectors and line integrals, theorems of Green, Gauss, and Stokes. *Prerequisite:* 41.223.

41.390 Independent Reading Course in Mathematics (c 00.25 through 02.00)

See Independent Reading Courses and Study Projects under General Curriculum Information.

41.440 Geometry (c 01.00)

Selected topics in differential, projective or non-euclidean geometry.

41.460 Introduction to Numerical Methods (c 01.00)

Introduction to numerical algorithms fundamental to scientific computation. Includes elementary discussion of error, solution of polynomial equations, and solution of systems of algebraic equations. *Prerequisites:* 41.261 and 41.102 or 41.222.

41.474 Probability (c 01.00)

Algebra of sets; probability in discrete sample spaces; combinatorial analysis; random variables; binomial, Poisson, normal and other distributions; applications. *Prerequisite:* 41.102 or 41.222.

41.480 History of Mathematics (c 01.00)

Mathematics in antiquity: Egypt, Mesopotamia, and ancient Greece. Renaissance and mathematics since 1600. Historical development of geometry, algebra, and calculus. The rigorization of analysis. Non-Euclidean geometry and axiomatics. Selected topics in modern mathematics.

41.490 Independent Study Project in Mathematics (c 00.25 through 02.00)

See Independent Reading Courses and Study Projects under General Curriculum Information.

Graduate Courses**Mathematics**

All courses listed below carry graduate credit. .500 level courses are open to graduate and qualified undergraduate students. Undergraduate students in .500 level courses receive one course unit for 3 or 4 semester hour credits. Courses at the .600 and .700 levels are open to graduate students only.

41.502-.503 Foundations of Mathematics (s 03.00) (s 03.00)

Introduction to symbolic logic, axiomatics, set theory, transfinite numbers. Peano's axioms, Dedekind cuts, number systems, philosophy of mathematics. *Prerequisite:* junior standing or above in mathematics or computer science. Not for graduate credit in mathematics. Recommended for teachers.

41.510 Matrix Theory for Applications (s 03.00)

Vector spaces, linear transformations, similarity, rational and classical canonical forms, unitary spaces, unitary equivalence, quadratic forms, congruence, rings of matrices, matrix representations of groups and algebras, applications to statistics, physics and other fields. Not intended for graduate students in mathematics. *Prerequisite:* 41.310.

41.512-.513 Introduction to Modern Algebra (s 03.00) (s 03.00)

Groups, rings, vector spaces and modules, fields and Galois theory. *Prerequisite:* 41.310 or permission.

41.515 Number Theory (s 03.00)

Divisibility; fundamental theorem of arithmetic; congruences; arithmetic functions; Diophantine equations; quadratic residues; sums of squares; partitions. *Prerequisite:* 41.222.

41.518 Linear Programming (s 03.00)

Theoretical, computational and applied areas. Topics include: convex sets, linear inequalities, extreme-point solutions, the simplex algorithm, duality problems, the transportation problem and method of solution, applications, theory of games. *Prerequisites:* 41.310 or permission of department.

41.519 Advanced Topics in Mathematical Programming (s 03.00)

Revised simplex algorithm, dual-simplex algorithm, integer programming, solution of large-scale systems, the decomposition algorithm, nonlinear programming, network analysis, parametric programming, sensitivity analysis. *Prerequisite:* 41.518, or permission of department.

41.520-.521 Introduction to Analysis I, II (s 03.00) (s 03.00)

Analysis in Euclidean and metric spaces; point sets; completeness; convergence; continuity; differentiability; Riemann, and Riemann-Stieltjes integration. Emphasis on formulation of the theory and the construction of proofs and examples. *Prerequisite:* 41.322.

41.523 Ordinary Differential Equations (s 03.00)

Topics from existence theorems, Riccati equations, Solutions in power series, regular and irregular singular points, two-point boundary-value problems, Sturm-Liouville theory, orthogonal functions. *Prerequisites:* 41.321.

41.524 Partial Differential Equations (s 03.00)

First and second order linear equations, type, characteristics, reduction to normal forms, separation of variables, Poisson's formula, Green's function. *Prerequisite:* 41.321.

41.528 Differentiable Manifolds (s 03.00)

Differentiable manifolds, vectors, tensors, and differential forms. Frobenius theorems, Riemannian geometry, Lie groups. *Prerequisites:* 41.310 and 41.520.

41.540 Topology (s 03.00)

Topological spaces, continuity, compactness, connectedness, metric spaces. *Prerequisite:* 41.322.

41.550 Mathematics for Physics I (s 03.00)

Complex variables. Cauchy's theorem and integral formulas. Residue theorem and contour integration. Conformal mapping. Fourier series, integrals, transforms, and inverse transforms. Laplace transform methods. *Prerequisite:* 41.321.

41.551 Mathematics for Physics II (s 03.00)

Oscillatory systems and normal modes. Eigenvalues and diagonalization of matrices. Wave equation. Vibrating strings and membranes. Orthogonal functions. Heat equation. Laplace's equation. Green's function. Variational methods. Tensors. *Prerequisite:* 41.550.

41.560 Numerical Analysis: Basic Problems (s 03.00)

Iterative solution of non-linear equations. Special methods for polynomials. Basic theory of polynomial approximation. *Prerequisites:* 41.460 and either 41.321 or 41.322.

41.561 Numerical Analysis: Algebra (s 03.00)

Norms of vectors and matrices. Numerical solution of linear systems. Matrix inversion. Computation of eigenvalues and eigenvectors. *Prerequisite:* 41.560.

41.562 Numerical Analysis: Analysis (s 03.00)

Numerical Quadrature, Linear difference equations. Consistency, convergence, and stability. *Prerequisite:* 41.560.

41.563 Selected Topics in Numerical Analysis (s 03.00)

Special topics are selected from such areas as partial differential equations or numerical approximation.

41.570 Complex Variables for Applications (s 03.00)

Selected topics in complex variables; integrals of analytic functions; uniform convergence; power series; singularities; residues and contour integration. Not open to graduate students in mathematics. Fall. *Prerequisite:* 41.322.

41.574 Theory of Probability I (s 03.00)

Measure theory, Lebesgue integral, random variables, distribution functions, generating and characteristic functions, special distributions and statistics, limit theorems. Fall. *Prerequisites:* 41.322 and 41.474 or permission.

41.575 Theory of Probability II (s 03.00)

Mathematical aspects, limit theorems, characterizations, other topics in the development of probability theory. *Prerequisite:* 41.574.

41.576 Mathematical Methods of Operations Research (s 03.00)

Short review of probability theory, Laplace transforms as used in probability theory. Stochastic processes and their use in industrial problems. Queueing theory, birth-death processes, other models where interarrival or service-time distributions are nonexponential, Inventory theory; linear and dynamic programming under uncertainty. *Prerequisites:* 41.474 and 69.502.

41.590 Independent Reading Course in Mathematics (s 01.00 through 06.00)

See Independent Reading Courses and Study Projects under General Curriculum Information.

41.610 Advanced Linear Algebra (s 03.00)

Matrix theory, introduction to multilinear algebra, tensor products, orthogonal spaces, classical groups, algebras, projective geometry, infinite dimensional spaces. *Prerequisites:* 41.412.

41.612, 41.613, 41.614 Modern Algebra I, II, III (s 03.00), (s 03.00), (s 03.00)

Selected topics from group theory: isomorphism theorems, Sylow theorems, classification of groups, solvable and nilpotent groups, p-groups, direct products, free groups, extensions. Ring theory: ideal theory in commutative rings, factorization theory, Noetherian and Artinian rings, Wedderburn-Artin theorem, Jacobson radical, algebras. Field theory: extensions, Galois theory, Kummer theory, valuations, Dedekind fields, algebraic number theory. *Prerequisite:* 41.512.

41.616 Homological Algebra (s 03.00)

Homology, cohomology, homological dimension, Ext and Tor, spectral sequences, category theory. *Prerequisite:* 41.513.

41.620-621 Analytic Functions I, II (s 03.00) (s 03.00)

Differentiation and integration of complex-valued functions, analyticity, Cauchy's theorems, Laurent series, singularities, contour integration and residue calculus, conformal mapping, analytic continuation, Weierstrass' and Mittag-Leffler's theorems. *Prerequisite:* 41.521.

41.624 Advanced Topics in Complex Variables (s 03.00)

Topics from: Conformal mapping and Riemann mapping theorem, schlicht functions and distortion theorems, Riemann surfaces and uniformization, entire functions, normal families, elliptic functions, and automorphic functions. *Prerequisite:* 41.621.

41.625 Calculus of Variations (s 03.00)

Extremization of functionals. Euler, Legendre, Weierstrass and Jacobi necessary conditions. Sufficient conditions for weak and strong extrema. Extremal fields and Hilbert's invariant integral. Isoperimetric problems and inequalities. Direct methods. *Prerequisite:* 41.551.

41.626 Integral Equations (s 03.00)

Fredholm equations and theorems. Neumann series, resolvent, degenerate kernels. Hilbert-Schmidt theory, symmetric kernels, eigenfunction expansions, properties and estimation of eigenvalues. Application to boundary value problems. Singular integral equations. *Prerequisite:* 41.551.

41.630 Measure and Integration (s 03.00)

Measurability; integration and convergence theorems. Lp spaces, modes of convergence, differentiation, introduction to probability. *Prerequisite:* 41.521.

41.631 Functional Analysis (s 03.00)

Banach and Hilbert spaces; Hahn-Banach, open-mapping, closed-graph, and uniform boundedness theorems; introduction to spectral theory. *Prerequisite:* 41.630.

41.632 Advanced Topics in Real Variables (s 03.00)

Locally convex spaces, duality theory, operator theory, Fourier analysis. *Prerequisite:* 41.631.

41.641-642 Algebraic Topology I, II (s 03.00) (s 03.00)

I: Covering spaces, fundamental groups, surfaces, introduction to homology. *Prerequisites:* 41.540, 41.512.

II: Homology groups, higher homotopy groups, fixed point theorems, manifolds. *Prerequisite:* 41.641.

41.654 Partial Differential Equations of Mathematical Physics I (s 03.00)

Second order hyperbolic equations, characteristics, Cauchy and Goursat problems, Riemann's method, quasi-linear equations. Legendre transformation, wave equation in n-dimensions, spherical means, Hadamard's method. *Prerequisites:* 41.524 or 41.551.

41.655 Partial Differential Equations of Mathematical Physics II (s 03.00)

Second order elliptic, parabolic, and mixed equations, problems of Dirichlet and Neumann, Green's function, potentials of volume and surface distributions, diffusion phenomena, Tricomi's equation. *Prerequisite:* 41.654.

41.656 Mathematical Theory of Fluid Dynamics I (s 03.00)

Basic kinematic and dynamics concepts, incompressible fluids, vorticity and circulation theorems, potential and stream function, plane and axially symmetric flows, conformal mapping, aerofoils, vortex lines and streets, jets and free streamline problems. *Prerequisite:* 41.551.

41.657 Mathematical Theory of Fluid Dynamics II (s 03.00)

Dynamics and thermodynamics of compressible fluids, subsonic, transonic, and supersonic flows, Prandtl-Busemann method, hodograph method, shock waves, viscous fluids, boundary layer theory, and turbulence. *Prerequisite:* 61.656.

41.690 Independent Study Project in Mathematics (s 01.00 through 06.00)

See Independent Reading Courses and Study Projects under General Curriculum Information.

41.700 Seminar in Mathematics (s 01.00 through 06.00)

Research in mathematics, involving individual projects. May be repeated for credit.

41.797 Master's Thesis Seminar in Mathematics and Statistics (s 03.00 through 06.00)**41.799 Doctoral Dissertation Seminar in Mathematics and Statistics (s 06.00 through 12.00)****STATISTICS****Undergraduate Courses****69.202 Basic Statistics (c 01.00)**

Classification of data, averages, dispersion, probability, frequency distributions, confidence intervals, tests of significance, non-parametric techniques, simple regression and correlation. Separate sections are made available for biology, business and economics, psychology and education, sociology and government majors. *Prerequisite:* 41.100 or permission.

69.300 Business Statistics (c 01.00)

Estimation, inference, multiple regression and correlation. Elementary decision theory. *Prerequisite:* 69.202.

69.301 Psychological Statistics (c 01.00)

Estimation, inference, special methods of two-variable correlation, multiple regression and correlation, design of samples and experiments, contingency tables, non-parametric techniques. *Prerequisite:* 69.202.

69.390 Independent Reading Course in Mathematics (c 00.25 through 02.00)

See Independent Reading Courses and Study Projects under General Curriculum Information.

69.400 Managerial Statistics (c 01.00)

Frequency distributions; averages; dispersion; probability; making decisions under uncertainty; inferences about means; proportions, and differences; simple and multiple regression. *Prerequisite:* 41.100 or graduate status.

41.474 Probability (c 01.00)

Algebra of sets; probability in discrete sample spaces; combinatorial analysis; random variables; binomial, Poisson, normal, and other distributions; applications. *Prerequisite:* 41.102 or 41.222.

69.490 Independent Study Project in Statistics (c 00.25 through 02.00)

See Independent Reading Courses and Study Projects under General Curriculum Information.

Graduate Courses

All courses listed below carry graduate credit. .500 level courses are open to graduate and qualified undergraduate students. Undergraduate students in .500 level courses receive one course unit for 3 or 4 semester hour credits. Courses at the .600 and .700 levels are open to graduate students only.

THEORY OF PROBABILITY AND STATISTICS

69.502 Introduction to Mathematical Statistics (s 03.00) (formerly 69.484)

Probability, probability distributions, sampling, sampling distributions, introduction to the theory of point estimation and statistical inference including confidence intervals and hypothesis testing. *Prerequisites:* 41.102 or equivalent; 69.202 and 41.474 are recommended. (Not open for credit to graduate students in mathematics or statistics.)

69.510-511 Theory of Sampling I and II (s 03.00) (s 03.00)

Mathematical development of basic principles of survey design including methods for determining expected value, bias, variance and mean square error; simple random, systematic, stratified, cluster, multistage, and double sampling; unbiased, ratio, regression, and composite estimation; optimum allocation of resources; controlled and other non-simple methods of selection; introduction to measurement error; comparison of alternative designs. *Prerequisites:* 69.502 or equivalent.

69.514 Methodology: General (s 03.00)

Averages, dispersion, probability, sampling, approach to normality; simple and multiple regression; tests and confidence intervals for means, proportions, differences, regression coefficients; nonparametric statistics; analysis of variance. *Prerequisite:* 69.202 or equivalent.

69.515 Methodology: Regression (s 03.00)

Simple and multiple regression; least squares; curve fitting; graphic techniques; tests and confidence intervals for regression coefficients. *Prerequisite:* 69.514 or equivalent.

69.516 Methodology: Design of Experiments (s 03.00)

Designing and analyzing results of balanced experiments; simple analysis of variance; components of variance; analysis of covariance; related topics. *Prerequisite:* 69.514 or equivalent.

69.517 Methodology: Special Topics (s 03.00)

Alternating topics in statistics treated from an applied viewpoint. Subjects considered will be sampling, multivariate techniques, factor analysis, etc. May be repeated for credit with permission of instructor. *Prerequisite:* 69.514 or equivalent.

69.518 Methodology: Psychological Statistics (s 03.00)

Methods appropriate for analyzing data of psychological research; estimation; testing; regression; analysis of variance and covariance; interval estimates and significance tests; related topics. *Prerequisite:* 69.202 or 69.514.

69.519 Methodology: Non-Parametric Statistics (s 03.00)

Application of non-parametric techniques in the analysis of social science data with emphasis on tests appropriate for data having interval, nominal, and ordinal scales. *Prerequisite:* 69.514 or permission.

69.530-531 Mathematical Statistics I, II (s 03.00) (s 03.00) (formerly 69.500-.501)

Distribution of random variables and functions of random variables, generating functions, order statistics, point estimation, maximum likelihood, confidence intervals, tests of hypotheses (Neyman-Pearson, likelihood ratio, etc.), linear regression, analysis of variance. Fall, spring. *Prerequisites:* 41.322, 69.502 or equivalent, 41.310.

41.574 Theory of Probability I (s 03.00)

Measure theory, Lebesgue integral, random variables, distribution functions, generating and characteristic functions, special distributions and statistics, limit theorems. Fall. *Prerequisites:* 41.322 and 41.474 or permission.

41.575 Theory of Probability II (s 03.00)

Mathematical aspects, limit theorems, characterizations, other topics in the development of probability theory. *Prerequisite:* 41.574.

41.576 Mathematical Methods of Operations Research (s 03.00)

Short review of probability theory, Laplace transforms as used in probability theory. Stochastic processes and their use in industrial problems. Queueing theory, birth-death processes, other models where interarrival or service-time distributions are nonexponential; inventory theory; linear and dynamic programming under uncertainty. *Prerequisites:* 41.474 and 69.202.

69.584 Introduction to Stochastic Processes (s 03.00)

An introduction to random walks, Markov chains and processes, Poisson processes, recurrent events, birth and death processes and related topics. Spring. *Prerequisite:* 41.574 or equivalent.

69.590 Independent Reading Course in Statistics (s 01.00 through 06.00)

See Independent Reading Courses and Study Projects under General Curriculum Information.

69.600 Advanced Mathematical Statistics I (s 03.00)

Theory of estimation, properties of estimators, large sample properties and techniques, applications. Fall. *Prerequisite:* 69.531, 41.574 (may be concurrent).

69.601 Advanced Mathematical Statistics II (s 03.00)

Mathematical foundations of statistical theory special topics in mathematical statistics. *Prerequisite:* 69.600.

69.604-.605 Statistical Decision Theory I and II (s 03.00) (s 03.00)

Convex sets and functions; minimax theorem; statistical games; utility and principles of choice; strategies; complete classes; Bayes procedures; principles of invariance; sequential procedures; related topics. *Prerequisite:* 69.600 (may be taken concurrently).

69.610 Statistical Inference I (s 03.00)

Development and applications of testing theory. *Prerequisite:* 69.600.

69.611 Statistical Inference II (s 03.00)

Methods of statistical inference, advanced topics in estimation and tests of hypotheses. *Prerequisite:* 69.610.

69.620-.621 Multivariate Analysis I and II (s 03.00) (s 03.00)

Multivariate normal distribution, Hotelling's T; Wilks' likelihood ratio criterion; other test statistics; classification problems; principal components; canonical correlation; general multivariate regression and experimental designs; related topics. *Prerequisites:* 41.510; 69.600 (may be taken concurrently).

69.670-.671 Linear Estimation I and II (s 03.00) (s 03.00)

General linear hypothesis; least squares estimation; Gauss-Markov theorem; regression; analysis of variance; multiple comparisons; analysis of covariance; factorial designs; randomized blocks; other experimental designs; effects of departures from assumptions. *Prerequisites:* 41.510; 69.600 (may be taken concurrently).

69.674-.675 Advanced Probability and Stochastic Processes I, II (s 03.00) (s 03.00)

Limit theorems; infinitely divisible distributions; conditioning; martingales; Markov processes, normal processes, stationary processes, related topics. *Prerequisites:* 41.574, 69.584.

69.690 Independent Study Project in Statistics (s 01.00 through 06.00)

See Independent Reading Courses and Study Projects under General Curriculum Information.

69.790 Seminar in Statistical Theory and Probability (s 03.00)

Advanced topics will be considered according to the needs of the students. May be repeated for credit with permission of instructor. *Prerequisite:* 69.600.

COMPUTER SCIENCE COURSES**Undergraduate Courses****41.160 Basic Computing (c 01.00)**

Introduction to programming; laboratory experience with computers; emphasis on use of computers as tools in areas of the student's concentration. The language used is BASIC. *Prerequisites:* 41.100 or three years of high school mathematics. (Not intended for Computer Science majors.)

41.166 Social and Cultural Implications of Computers (c 01.00)

Describes the history of the digital computer and its growing use in Western society. Academic, industrial, and governmental applications are examined. The potential benefits and risks involved in the penetration by the computer into all aspects of society are discussed. Students are required to prepare bibliographies and term papers on a particular aspect of computers in a field of interest to them. (Not intended for Computer Science majors). *Prerequisite:* 41.160 or equivalent.

41.260 Introduction to Computing (c 01.00)

A First course, intended to teach the student to use computers in solving problems. *Prerequisite* for further work in computer science, but also useful in other fields. Algorithms, flow charting, practice in FORTRAN programming. *Prerequisites:* 41.100 or three years of high school mathematics.

41.261 Computers and Programming (c 01.00)

Provides a unified view of the inter-relationships between digital system design, computer organization, and assembly-language programming techniques. The logical equivalence of hardware and software is emphasized through the concept that an algorithm can be carried out by either a special purpose digital network or a computer program. *Prerequisite:* 41.260 or consent of instructor.

41.360 Introduction to Discrete Structures (c 01.00)

Student is introduced to those fundamental algebraic, logical and combinatoric concepts from mathematics needed in subsequent computer science courses, and is shown the applications of these concepts to problem solving and to various areas of computer science. *Prerequisite:* 41.101 or 41.111 and 41.261.

41.460 Introduction to Numerical Methods (c 01.00)

Introduction to numerical algorithms fundamental to scientific computation. Includes elementary discussion of error, solution of polynomial equations and solution of systems of algebraic equations. *Prerequisites:* 41.261 and 41.102 or 41.222.

41.461 Mathematical Principles of Computing (c 01.00)

Introduction to the representation and properties of finite state machines and Turing machines. Topics include regular expressions, universal machines, and elementary recursive function theory. *Prerequisite:* 41.102 or 41.222 and 41.261.

Graduate Courses**41.530 Organization of Computer Files (s 03.00)**

Provides a comprehensive treatment of the techniques of file organization and management for timesharing and multiprogramming environments. Applications of these techniques to representative problems will be treated. *Prerequisite:* 41.360 or 41.580 or consent of instructor.

41.560 Numerical Analysis: Basic Problems (s 03.00)

Iterative solution of non-linear equations. Special methods for polynomials. Basic theory of polynomial approximation. *Prerequisites:* 41.460 and either 41.321 or 41.322.

41.561 Numerical Analysis: Algebra (s 03.00)

Norms of vectors and matrices. Numerical solution of linear systems. Matrix inversion. Computation of eigenvalues and eigenvectors. *Prerequisite:* 41.560.

41.562 Numerical Analysis: Analysis (s 03.00)

Numerical quadrature, linear difference equations. Consistency, convergence, and stability. *Prerequisite:* 41.560.

41.563 Selected Topics in Numerical Analysis (s 03.00)

Special topics are selected from such areas as partial differential equations or numerical approximation.

41.564 System Programming (s 03.00)

Topics in the preparation of system programs; buffering, interrupt processing, scatter storage techniques, sorting, parsing, etc. A programming project selected by the student is required. *Prerequisite:* 41.261 and the consent of instructor.

41.565 Operating Systems (s 03.00)

Overall theory of timesharing and multiprocessing operating systems; procedures, processes, virtual memory, resource allocation, etc. Students will design and implement a minicomputer timesharing system. *Prerequisite:* 41.564 or the consent of instructor.

41.566 Introduction to Compilers (s 03.00)

This course emphasizes the techniques required to design and implement a compiler. Topics include lexical analysis, syntactic analysis, and the generation of efficient object code. *Prerequisite:* 41.360 and 41.569 or 41.580 or consent of instructor.

41.567 Computer Organization (s 03.00)

Elements of conventional and unconventional computer organization. Design of computer systems through simulation. Microprogramming. Using system firmware to realize programmed algorithms. Design of a conventional processor organization and an unconventional processor organization. *Prerequisite:* 41.261 or consent of the instructor.

41.568 Artificial Intelligence (s 03.00)

The application of the computer to tasks that are normally considered to demand human intelligence: game playing, problem solving, learning, pattern recognition, understanding. *Prerequisite:* 41.360 or 41.580 or consent of instructor.

41.569 Programming Languages (s 03.00)

A study of the structural characteristics of various higher-level languages such as ALGOL, LISP, and APL; a unified treatment of basic language features; and an introduction to the formal treatment of syntax and semantics. *Prerequisite:* 41.360 or 41.580 or consent of instructor.

41.580 Survey of Computer Science (s 03.00)

An intensive introduction to computer science, including graphs, data structures, and programming techniques. Techniques include backtracking, recursion, and structured programming. *Prerequisite:* 41.260 or equivalent. (Not open to students receiving credit for 41.360.)

41.581 Information Storage and Retrieval (s 03.00)

A study of algorithms for the efficient storage and retrieval of information. Comprehensive treatment of data structures, storing and searching with emphasis on sequential searching, tree searching, digital searching, hash coding, and query systems. *Prerequisite:* 41.360 or 41.580.

41.582 Automata Theory (s 03.00)

Automata and their related algebraic structures, properties of regular events and properties of sub-classes of regular events, decomposition of finite automata. Structural and behavioral aspects of finite automata. *Prerequisite:* 41.461 or 41.533 or consent of instructor.

41.583 Formal Language Theory (s 03.00)

Definition of a formal language; a finite representation for a language; regular, context-free, context sensitive, and type 0 grammars; types of automata, both deterministic and non-deterministic, including pushdown automata, stack automata, linear bounded automata, and Turing Machines; properties of classes of languages; decidability results. *Prerequisite:* 41.582 or consent of instructor.

41.584 Computer Graphics (s 03.00)

This course deals with the hardware and software necessary to process information in display

terminals of computer systems. Students will develop and analyze algorithms involving the use of visual displays. *Prerequisites:* 41.530 and 41.360 or 41.580.

41.585 Theorem Proving (\$ 03.00)

The study of the techniques that enable mathematical theorems to be proved by computer. Logic, formal proof schema, theorem-proving by means-end analysis, semantic trees, the resolution principle, the strategy problem, application to problem solving. *Prerequisites:* 41.568 and 41.580 or equivalent.

Music

Correspondence Directory: Lloyd Ultan, *Chairman*

Fields of Study

History and literature, musicology, theory, composition, music education, applied music (performance).

Full-time Faculty

Professor: Evelyn Swarhout Hayes, Raphael Hillyer, James L. McLain (Emeritus), Gordon H. Smith, Lloyd Ultan

Associate Professor: Alan Mandel, Vito E. Mason, George C. Schuetze, Jr., Charles Crowder, Elizabeth Vrenios

Assistant Professor: P. Howard Patrick

Instructor: Robert McDowell

Undergraduate Degrees

Bachelor of Arts*, Bachelor of Music, Bachelor of Music Education

Admission to the Major

A student is admitted only after a one year probationary period. During the year of probation required of all new students, musical ability in the area of performance and in the field of music theory must be demonstrated. A 2.00 overall average is required and a B average in the major field.

Composition and Reading Requirement—See Undergraduate Degree Requirements under General Academic Regulations.

Language Requirement—See Undergraduate Degree section under the College of Arts and Sciences. German is recommended for students specializing in music history.

Department Requirements

MAJOR COURSES

- 43.104 Theory I
 - 43.105 Theory II
 - 43.204 Theory III
 - 43.205 Theory IV
 - 43.300 History of Music I
 - 43.301 History of Music II
 - **43.302 Ear Training and Sight Reading
 - 43.304 Theory V
 - 43.305 Theory VI
 - **43.306 Conducting I
 - **43.307 Conducting II
 - **43.311 Orchestration
 - **43.312 Keyboard Harmony I
 - **43.313 Keyboard Harmony II
- and Applied Music until completion of Senior Recital.

*The B.A. degree program is not recommended for students planning to do graduate work in music.

**Not required for B.A. in Music.

RELATED COURSES

All music majors must complete a minimum of three courses of additional work in one of the following fields of specialization:

Music history and literature

Music Theory (Fugue and two theory electives)

Composition (Fugue and one year of composition)

Music Education (Instrumental or Vocal; limited to BME candidates)

43.140 Introduction to Music Education; 43.363, General Music Methods and Materials; Instrumental or Vocal Methods;

21.300 Foundations of Education; and 21.444, Student Teaching: Elementary Schools and/or

21.445 Student Teaching: Secondary Schools are required of all students specializing in music education.

Performance (not open to B.A. candidates)

43.550, Pedagogy I, 43.551, Pedagogy II, and a minimum of one course of Applied Music at the 44.434, level are required of all students specializing in Performance.

Related Tool Courses

Private instrumental or vocal study in this department throughout the undergraduate program until completion of the Senior Recital—normally eight semesters. (B.A. candidates are required to have at least four semesters of private instrumental or vocal study.)

Other Requirements

A student majoring in music is required to:

(1) Participate in a faculty-conducted ensemble, related to his performance area where possible, for a minimum of one ensemble for each semester that he is in full-time attendance here (4 semesters for B.A. candidate; for a part-time student one semester of ensemble for each 4 courses completed on campus). At least one-half of the minimum requirement must be participation in the University Chorale, Orchestra, or Symphonic Wind Ensemble.

(2) Present one half of a senior recital program if a B.M. or B.M.Ed. candidate. A performance major presents a junior half and a full senior recital program. No recital required for B.A. degree. Composition majors must include an approved original composition for their instrument in their recital.

(3) Pass a departmental *Senior Comprehensive Examination* in music history and theory normally during his final year of study.

Electives

To complete a minimum of 32 courses.

Graduate Degree

Candidates for graduate degrees in all departments are subject to University Graduate Degree Requirements (see Graduate Degree Requirements under General Academic Regulations). Requirements given below list the minimal requirements from a departmental point of view. University requirements that exceed these requirements are nonetheless binding upon the student.

Master of Arts

Admission

See Graduate Admission under Admission Information.

For possible graduate deficiencies, consult the undergraduate departmental requirements. Graduate deficiencies may be made up by appropriate course work or by waiver examination.

Four semesters of harmony and of ear training, and one semester each of form and analysis, 16th century counterpoint, and 18th century counterpoint shall be considered the equivalent of Theory I-VI. Courses no longer offered by the department (e.g., 16th century counterpoint) may be made up as undergraduate reading courses or by waiver examination.

All students are required to take the departmental *Senior Comprehensive Examination* in music history and theory (Graduate Counseling Examination) either before or during their first semester of graduate work. The results are intended for counseling purposes only.

Students wishing to specialize in Performance are required to audition, either in person

or by tape recording, prior to admission. The graduate degree in performance is offered in all undergraduate performance areas, with the exception of guitar.

Students wishing to specialize in music education are required to have completed before admission to graduate study:

(1) nine hours in education, and

(2) one semester of teaching experience, or the equivalent in practice teaching.

Students wishing to specialize in composition must submit a portfolio of at least five (5) original compositions (representing at least three different types of works) prior to admission.

Fields of Specialization

Course Requirements

COMPOSITION

Minimum of 30 hours, including:

43.507 Studies in Music Theory: Fugue (3)

43.703 Advanced Composition (3-6)

43.797 Master's Thesis Seminar (6), the requirement being a large composition rather than a thesis. Plus a minimum of 9 hours of additional graduate level theory and composition courses.

MUSIC EDUCATION

Minimum of 30 hours, including:

43.797 Master's Thesis Seminar (6)

21.522 Evaluation of Student Progress (3)

43.540 Introduction to Graduate Study in Music Education (3)
Either

43.542 The Psychology of Music

43.561 Music Education Seminar (3), or

43.740 Supervision and Administration of Music Education (3)

Electives to include 12 hours of graduate level courses in this department.

MUSIC HISTORY (MUSICOLOGY)

Minimum of 30 hours, including:

43.510 Introduction to Musicology (3)

43.797 Master's Thesis Seminar (6)

Plus a minimum of twelve hours in additional graduate-level music history and literature courses.

PERFORMANCE

Minimum of 30 hours in either program (a) or (b) (non-thesis option)

(a) 43.510 Introduction to Musicology (3)

43.550 Pedagogy I (2)

43.551 Pedagogy II (2)

43.797 Master's Thesis Seminar (6)

plus four hours of applied music at the 44.791 or 44.792 level.

(b) 43.550 Pedagogy I (2)

43.551 Pedagogy II (2)

43.555 Chamber Ensembles (up to four hours)

44.791 or .792 Applied Music Study (up to four hours)

43.798 Research Performance (3-3)

Work will include intensive private instrumental or vocal study and research in the lecture-topic area. May not be taken concurrently with Applied Music classes or before the M.A. recital requirement has been completed.

Electives to include a minimum of twelve hours of graduate level academic courses in this Department.

THEORY

Minimum of 30 hours, including:

43.507 Studies in Music Theory: Fugue (3)

43.510 Introduction to Musicology (3)

43.797 Master's Thesis Seminar (6)

plus a minimum of nine hours of additional graduate-level theory courses.

Electives

Electives may include any other graduate level courses in the Department of Music. Electives to complete 30 hours may not include:

- (1) More than 6 hours of non-music courses; registration in such courses for credit toward the degree must be approved by the chairman of the Department of Music.
- (2) More than 4 hours of applied music (students specializing in performance program (a) may not include more than 6 total hours of applied music, i.e., 2 hours beyond the 4 that are required).
- (3) More than 4 hours of 43.555, Chamber Ensembles (1).

Comprehensive Examinations

One examination in music history and theory, and one examination in the student's field of specialization. Comprehensive examinations may be taken *during or after* the semester in which the student will complete 24 hours of course work.

Comprehensive Examination Fields

43.000	General Music History and Theory (required of all students)	
43.001	Composition or Theory	43.006 Music Education (vocal)
43.002	Music History (Musicology)	43.007 Music Education (general music)
43.005	Music Education (instrumental)	43.008 Master's Recital

Other Requirements

Proficiency in German, French, or an approved substitute is required of students writing a thesis (i.e., majors in music history, performance, theory and music education majors who elect 43.797). Statistics, or the equivalent, may be required, as determined by the Music Education Advisor, in place of a language proficiency for students specializing in music education.

Students majoring in performance are required to present a minimum of four appearances in departmental student recitals; at least one must be part of an ensemble performance, in addition to a full Master's recital program. Those in performance program (b) must present a lecture/recital in addition to and after completion of the M.A. Recital (43.008).

All graduate students in the department will be expected to assist performing ensembles for public performances should their services be required.

Courses of Instruction

Undergraduate level course values are expressed as *course units* according to the following decimal notation: (c 00.25) = $\frac{1}{4}$ course unit; (c 00.50) = $\frac{1}{2}$ course unit; (c 00.75) = $\frac{3}{4}$ course unit; (c 01.00) = 1 course unit; (c 01.50) = $1\frac{1}{2}$ course units; etc.

Graduate level course values are expressed as *semester credit hours* according to the following decimal notations: (s 01.00) = 1 semester hour; (s 02.00) = 2 semester hours; (s 03.00) = 3 semester hours; etc. There are no fractional semester credit hours.

Undergraduate Courses

HISTORY AND LITERATURE

43.100 Music Theory for Non-Music Majors (c 01.00)

Development of listening techniques based on an understanding of the functional role of the elements in the organization of music.

43.101 Music Appreciation (c 01.00)

Chronological study of stylistic periods of music related to the thought of our age. Emphasis placed on listening to representative works by major composers.

43.102 Selected Topics (c 01.00)

Study of a pre-selected area such as orchestral music, chamber music, opera, American music, folk music, 20th century music, etc. May be repeated for credit if no duplication of topic is involved. *Prerequisite:* 43.100.

43.103 The Evolution of Jazz and Rock (c 01.00)

Cultural sources and growth of divergent stylistic characteristics of jazz and rock through past one hundred years.

43.106 African Music (c 01.00)

Music of several major areas of Africa (including such areas of Uganda, Ghana, Nigeria, Kenya, and the Congo) and its subsequent influence on Black American music. *Prerequisite:* none.

43.300 History of Music I (c 01.00)

Music in Western civilization from ancient times to the 17th century, including a brief survey of primitive and oriental music. Illustrated with slides and recordings. *Prerequisite:* one year (preferably two) of music theory, or permission of the instructor.

43.301 History of Music II (c 01.00)

Music in Western civilization from the 18th century to the present. Illustrated with slides and recordings. *Prerequisite:* 43.300 or permission of the instructor.

43.390 Independent Reading Course in Music (c 00.25 through 02.00)

See Independent Reading Courses and Study Projects under General Curriculum Information.

43.490 Independent Study Project in Music (c 00.25 through 02.00)

See Independent Reading Courses and Study Projects under General Curriculum Information.

THEORY**43.104 Theory I: Introduction to Music Theory (c 01.00)**

Comprehensive study of scales, modes, rhythm, instruments, and notational practices from the Middle Ages to the present. Basic general concepts of rhythm, melody, harmony, counterpoint, and form studies in the context of developing ear and sight reading proficiency.

43.105 Theory II: The Middle Ages (c 01.00)

Line, rhythm, notation, form and vertical relationships as practiced in Medieval music. Literature and style analysis, composition, sight reading and aural dictation. *Prerequisite:* 43.104.

43.204 Theory III: The Renaissance (c 01.00)

Study of 15th and 16th century style and theory by analysis, composition, sight reading and aural dictation. *Prerequisite:* 43.105.

43.205 Theory IV: The Baroque (c 01.00)

Baroque style and theory, by analysis, composition, sight reading and aural dictation. *Prerequisite:* 43.204.

43.302 Ear Training and Sight Reading (c 01.00)

An intensive course in aural development and sight reading proficiency which may be extended over a three year period. Students may complete course requirements as they individually achieve the required levels of proficiency. *Prerequisite:* open only to music majors.

43.304 Theory V: The Classical and Romantic Periods (c 01.00)

Music of classic and romantic periods studied by analysis, composition, sight reading and aural dictation. *Prerequisite:* 43.205.

43.305 Theory VI: The Twentieth Century (c 01.00)

Diverse styles and theoretical attitudes of the 20th century, by analysis, composition, sight reading and aural dictation. *Prerequisite:* 43.304.

43.306 Conducting I (c 00.50)

Practical study of basic conducting technique; emphasis on choral conducting. *Prerequisite:* 43.205 or permission of instructor.

43.307 Conducting II (c 00.50)

Orchestral and band conducting; score reading and interpretation. *Prerequisite:* 43.306.

43.311 Orchestration (c 00.50)

Scoring for various chamber ensembles and full orchestra. Analysis of orchestration practice of composers from classic era to present. *Prerequisite:* 43.205 or permission of instructor.

43.312 Keyboard Harmony I (c 00.50)

Keyboard practice of chord progressions in four parts; cadence patterns; simple melodic harmonization; harmonic sequences. *Prerequisite:* 43.205 or permission of instructor.

43.313 Keyboard Harmony II (c 00.50)

Continuation of 43.312; modulation and transposition; special projects for individual needs. *Prerequisite:* 43.312.

43.315 Composition I (c 01.00)

Individually supervised practice in writing short compositions in specified small forms. *Prerequisite:* 43.205.

43.316 Composition II (c 01.00)

Continuation of 43.315; assignments adapted to individual needs and talents of students. *Prerequisite:* 43.315.

MUSIC EDUCATION**43.140 Introduction to Music Education (c 00.50)**

Philosophical, psychological, and sociological bases of music education, with emphasis on music in the elementary and secondary schools. Examination of current practice through observation trips to area schools. *Prerequisite:* Interest in music education.

43.353 Music for Elementary School Teachers (c 01.00)

Technical background and methods of presentation for the elementary classroom teacher to use in teaching music. Primarily for elementary education majors; students majoring in music may not include this course as credit toward a degree. *Prerequisite:* 43.100 or the equivalent.

43.360 Instrumental Music in the Elementary and Secondary School (c 01.00)

Practical application of theoretical concepts in the planning and presentation of instrumental music. Examination and development of materials, classroom management and control. Observation trips to area schools. *Prerequisite:* 43.140.

43.361 General Music in the Elementary School (c 01.00)

Study and development of materials and methods used by the elementary classroom music specialist. Observation in area schools. *Prerequisite:* 43.140.

43.362 Vocal Music in the Secondary School (c 01.00)

Vocal and choral techniques in the junior and senior high school. Study and development of methods and materials. Rehearsal management and organization of the choral music program. *Prerequisite:* 43.140.

43.363 General Music in the Secondary Schools (c 00.50)

Teaching music to the adolescent in the junior and senior high school general music class. *Prerequisite:* 43.140.

APPLIED MUSIC**43.113 Class Guitar I (c 00.25)**

Beginning study of classic guitar in preparation for private study.

43.114 Class Guitar II (c 00.25)

Continuation of Class Guitar I. *Prerequisite:* 43.113 or audition.

43.115 Class Piano I (c 00.25)

Beginning piano study directed toward satisfaction of the department's minimal piano requirements.

43.116 Class Piano II (c 00.25)

Continuation of basic piano skills begun in Class Piano I, necessary for entrance into 43.312 Keyboard Harmony, and private piano study. *Prerequisite:* 43.115.

43.117 Class Voice I (c 00.25)

Beginning voice study directed toward satisfaction of the minimal voice requirements in music education.

43.118 Class Voice II (c 00.25)

Application of basic principles of correct use of the singing voice to the study of good song literature. *Prerequisite:* 43.117.

43.150 Class Instrumental Study (c 00.25)

Beginning study of an announced area (e.g. brass, woodwinds, strings, or percussion) and a pre-selected instrument within that area. Fundamentals of playing, principles of pedagogy, and methods and materials. May be repeated for credit on another instrument. *Prerequisite:* permission of instructor.

43.152 University Chorale (c 00.25)

Prepares and presents major works of choral literature. *Prerequisite:* audition.

43.153 University Singers (c 00.50 per semester)

A small, highly select traveling choral ensemble which presents both sacred and secular programs. *Prerequisite:* audition.

43.154 University Orchestra (c 00.25)

Concerts, sight-reading, study of selected compositions. Open to all students, faculty, and staff. *Prerequisite:* permission of instructor.

43.155 Instrumental Ensembles (c 00.25)

String, mixed, and wind ensembles, and a jazz workshop. Open to students, faculty, and staff. *Prerequisite:* Permission of instructor.

43.156 Symphonic Wind Ensemble (c 00.25)

A symphonic band which presents several concerts during the year. A tour is occasionally included in the schedule. *Prerequisite:* audition and permission of instructor.

Applied Music (Private Study)

All undergraduate courses in applied music may be repeated for credit. Fees are in addition to tuition. For regulation regarding applied music (levels of achievement, juries, attendance at recitals, etc.), see the departmental *Applied Music Handbook*. Enrollment in all courses listed under applied music must be approved by the department. The student is required to show written permission at registration.

44.121 Private Instrumental or Vocal Study (c 00.25)

Limited to students not majoring in music or music majors on secondary instruments. *Prerequisite:* 43.114 for guitar, 43.116 for piano, 43.118 for voice, 43.149 for brass instruments, 43.150 for bowed string instruments, 43.151 for woodwind instruments; or the equivalent. Fee, \$65.

44.122 Private Instrumental or Vocal Study (c 00.50)

Limited to students not majoring in music. *Prerequisite:* see 44.121. Fee, \$130.

44.131 Private Instrumental or Vocal Study (c 00.25)

Limited to students majoring in music. *Prerequisite:* see 44.121. Fee, \$40.

44.132 Private Instrumental or Vocal Study (c 00.50)

Limited to students majoring in music. *Prerequisite:* see 44.121. Fee, \$80.

44.334 Private Instrumental or Vocal Study (c 01.00)

Enrollment limited. Recital required. *Prerequisite:* audition and permission of department chairman. Fee, \$80.

44.434 Private Instrumental or Vocal Study (c 01.00)

Enrollment limited. Recital Required. *Prerequisite:* audition and permission of department chairman. Fee, \$80.

Graduate Courses

All courses listed below carry graduate credit. .500 level courses are open to graduate and qualified undergraduate students. Undergraduate students in .500 level courses receive one course unit for 3 or 4 semester hour credits. Courses at the .600 and .700 levels are open to graduate students only.

HISTORY AND LITERATURE

43.500 Music of the Baroque Era (s 03.00)

Advanced study of European music of the 17th and early 18th centuries. Comprehensive coverage of styles and forms. Illustrated with slides and recordings. *Prerequisite:* 43.300-.301 or the equivalent.

43.501 Music of the Classic Era (s 03.00)

Growth of new idioms and forms from the early 18th to the early 19th century. Illustrated with slides and recordings. *Prerequisite:* 43.301 or the equivalent.

43.502 Music of the Romantic Period (s 03.00)

Historical and cultural background; intensive study of the composers and works of the period; emphasis on individual styles; nationalism, program music. *Prerequisite:* 43.301.

43.503 Music of Twentieth Century (s 03.00)

Chronological survey of musical styles and ideas from 1900 to the present, with emphasis on a few selected composers. Illustrated with slides and recordings. *Prerequisite:* 43.301 or the equivalent.

43.504 Studies in Music Literature (s 03.00)

Survey of a pre-selected area, such as chamber music, orchestral music, keyboard music, choral music, etc. May be repeated for credit if no content duplication is involved. *Prerequisite:* 43.301 or concurrent registration.

43.505 Studies in Music History (s 03.00)

History of a pre-selected area, such as opera, music theory, musical instruments, etc. May be repeated for credit if no content duplication is involved. *Prerequisite:* 43.301 or concurrent registration.

43.510 Introduction to Musicology (s 03.00)

Methods and tools of research. Class project, oral report, written paper. Transcription of vocal notations and instrumental tablatures. Survey of scholarly editions, periodicals, and reference works in the major European languages. *Prerequisite:* 43.300-.301 or the equivalent.

43.555 Chamber Ensembles (s 01.00)

Performance in particular areas of music literature by small, select groups, including the following: (a) *Collegium Musicum*. Vocal and instrumental sections. Emphasis on Baroque, Renaissance, and Medieval music, using departmental collection of lutes, viols, recorders, cromornes, cornetti, sackbuts, harpsichords, etc. May be taken four times for credit by graduate students, who are expected to edit and/or direct music as well as perform. (b) *Operetta Workshop*. A practicum workshop of operetta and musical-comedy scenes, culminating in one or more performances of the music covered during the semester. (c) *String Ensembles*. Advanced string chamber-music ensembles, preparing for performance a varied literature. *Prerequisite* for all ensembles: Audition.

43.590 Independent Reading Course in Music (s 01.00 through 06.00)

See Independent Reading Courses and Study Projects under General Curriculum Information.

43.680 Medieval Music (s 03.00)

Advanced study of European music from the early Christian era to the beginning of the 15th century. Emphasis on stylistic and notational problems, primary sources, bibliography. Illustrated with slides and recordings. Written paper, taped listening assignments. *Prerequisite:* 43.300 or the equivalent.

43.690 Independent Study Project in Music (s 01.00 through 06.00)

See Independent Reading Courses and Study Projects under General Curriculum Information.

43.701 Renaissance Music (s 03.00)

Comprehensive survey of European music of the 15th and 16th centuries. Emphasis on stylistic innovations, primary sources, bibliography. *Prerequisite:* 43.300 or the equivalent.

43.702 Musicology Seminar (s 03.00)

Advanced study in pre-selected areas, such as performance practices, early notation, the Italian madrigal, etc. May be repeated for credit if no duplication is involved. *Prerequisite:* 43.510 or the equivalent.

43.797 Master's Thesis Seminar (s 03.00 through 06.00)

Prerequisite: 43.703 for composition majors; 43.540 for music education majors (instrumental or vocal); 43.510 for all other students; plus permission of department chairman.

43.798 Research Performance: Lecture-Recital (s 03.00 through 06.00)

Research topics for M.A. candidates in performance who must present a lecture-recital. Work will include intensive private instrumental or vocal study and research in the lecture topic area. May not be taken concurrently with applied music classes or before the M.A. recital requirement has been completed. *Prerequisite:* permission of the Department Chairman. *Fee:* \$100 in addition to registration cost for each three semester credit hours.

THEORY**43.507 Studies in Music Theory (s 03.00)**

Studies in depth in specific areas of theoretical concern, such as fugue; electronic music; chance vs. control as compositional principles; and techniques of variation. May be repeated for credit if no content duplication is involved. *Prerequisite:* 43.305.

43.515 Advanced Conducting (s 03.00)

Conductor's role in the preparation and presentation of the more complex masterworks. Students will be expected to participate in laboratory conducting experiences. May be repeated for credit. *Prerequisites:* 43.306 and 43.307 or the equivalent.

43.700 Analytical Studies (s 03.00)

Analysis of specified works, composers, styles, idioms, forms. Period covered is announced in semester bulletins. May be repeated for credit. *Prerequisite:* 43.305.

43.703 Advanced Composition (s 03.00)

Guidance in writing large forms and in experimental idioms. Assignments adapted to individual needs, interests, and talents. May be repeated for credit. *Prerequisite:* 43.316 or permission of the instructor.

43.704 Twentieth-Century Counterpoint (s 03.00)

Study of important contrapuntal styles of the past 70 years through analysis. Practical creative writing problems in each style studied. *Prerequisite:* 43.305.

MUSIC EDUCATION**43.540 Introduction to Graduate Study in Music Education (s 03.00)**

Research techniques and materials designed to acquaint the practicing music educator with useful findings and applicable methods. Bibliography and library resources.

43.542 The Psychology of Music (s 03.00)

Insight into man's responses to music and music as an art object via investigation of psychological, philosophical, and acoustical data. *Prerequisite:* permission of the instructor.

43.561 Music Education Seminar (Vocal, General, Instrumental) (s 03.00)

Advanced study of a specific, pre-selected area in music education. *Prerequisite:* 43.360 or 43.361-.362, as applicable.

43.740 Supervision and Administration of Music Education (s 03.00)

Nature and scope of supervision, supervisory relationships, procedures and techniques; organization and improvement of music curricula, administration of music programs and development of evaluative criteria.

APPLIED MUSIC**44.531 Private Instrumental or Vocal Study (s 01.00)**

Directed at the non-performance major. Admission is predicated on completion of the second year of undergraduate applied music major requirements and audition. Fee: \$65.

44.532 Private Instrumental or Vocal Study (s 02.00)

Directed at the non-performance major. Admission is predicated on completion of the second year of undergraduate applied music major requirements and audition. Fee: \$130.

44.534 Service Playing and Improvisation (s 02.00)

Techniques of score reading, service playing, improvisation, realizing figured bass, and directing from the console. *Prerequisites:* 43.313 Keyboard Harmony II and senior-level ability in organ playing, as indicated in the department *Applied Music Handbook*. Fee: \$80.

43.550 Pedagogy I (s 02.00)

Seminar to explore concepts of vocal and instrumental performance and their application to teaching in the private studio. *Prerequisite:* permission of instructor.

43.551 Pedagogy II (s 02.00)

Survey of literature and the teaching of instrumental and vocal techniques.

43.552 Internship in Music (s 03.00)

Practical professional experience for selected students who work with a cooperating agency directly in their professional field under faculty guidance and supervision. *Prerequisite:* permission of department chairman.

44.791 Private Instrumental or Vocal Study (s 01.00)

May be repeated up to six hours by a master's degree candidate in performance. Others limited to four hours. *Prerequisites:* 44.432 or equivalent and written permission of the department. Fee: \$65.

44.792 Private Instrumental or Vocal Study (s 02.00)

May be repeated up to six hours by a master's degree candidate in performance. Others limited to four hours. *Prerequisites:* 44.432 or equivalent and written permission from the department. Fee: \$130.

Performing Arts

Correspondence Directory: Charles F. Crowder, *Chairman*

Fields of Study

Theatre, Dance, Performance Arts

Full-time Faculty

Professor: Gordon H. Smith

Associate Professor: Kenneth Baker, Charles F. Crowder, Naima W. Prevots, Herbert R. Voss

Assistant Professor: Boris I. Baranovic, Elizabeth M. Daley

Undergraduate Degree

Bachelor of Arts and Bachelor of Science

Admission to the Major

The program counsels freshmen and transfer students. Students are formally admitted to the major when they present a 2.00 grade point average.

Composition and Reading Requirement—See Undergraduate Degree Requirements under General Academic Regulations.

Language Requirement—See Undergraduate Degree section under the College of Arts and Sciences.

Major Field Requirements

Major field requirements are based on individual needs and determined by counseling with the Performing Arts faculty.

Related Field Requirement

No requirement

Electives

To complete a minimum of 32 courses.

(Performing arts majors are expected to participate actively in the productions of the department.)

Graduate Degree

Candidates for graduate degrees in all departments are subject to University Graduate Degree Requirements (see Graduate Degree Requirements under General Academic Regulations). Requirements given below list the minimal requirements from a departmental point of view. University requirements that exceed these requirements are nonetheless binding upon the student.

Master of Arts in Performing Arts

Admission Requirements

Admission to the graduate program will be a bachelor's degree or its equivalent. In the case of:

- (a) those with a bachelor's degree, a minimum of eight to ten courses (24–30 semester hours) in undergraduate theatre, dance, or music work, one-third in advanced work is acceptable. In this relevant course work, a grade point average of 2.00 on a three point scale, or 3.00 on a four point scale is required. A personal interview may be requested by the department.
- (b) equivalent training, it is understood to be four–six years experience in a professional company organization. Students entering the program with this background will be asked for an audition/interview at which time any deficiencies will be determined. Students accepted will be placed on "provisional" status until deficiencies are removed.

Areas of Concentration

M.A. candidates in performing arts may concentrate in history and criticism, directing, playwriting, design/technical production, choreography, performance, and in such special programs as may be approved by the Performing Arts Graduate Study Committee.

Course Work

A total of 30 semester hours of graduate level work will be required. Three semester hours of this total must be devoted to the preparation of a thesis, either written or in the mounting of a production in the area of focus of the graduate work, i.e., directing, technical production, choreography, etc. This may be taken for up to six semester hours.

Course work will be determined by the student and counselor and will be based on the development of the candidate's talent in his area of work. Dance track students will be required to attend one summer of The American University Wolf Trap Academy for the Performing Arts (residence credit; see Wolf Trap section in this publication—listed under the College of Arts and Sciences). Theatre track students may be required to do the same as the dance track students with regard to participation in the summer Wolf Trap program (depending on the individual program).

A minimum of three interdisciplinary courses in the departmental curriculum will be required of all graduate students.

Comprehensive Examination

Candidates for the M.A. degree in performing arts will be required to take one written (or oral) examination. The examination will be individual in character and will be devised by the student's counselor in coordination with the faculty of the department. The examination will be read (heard) by the entire faculty of the department.

Courses of Instruction

Undergraduate level course values are expressed as *course units* according to the following decimal notations: (c 00.25) = ¼ course unit; (c 00.50) = ½ course unit; (c 00.75) = ¾ course unit; (c 01.00) = 1 course unit; (c 01.50) = 1½ course units; etc.

Graduate level course values are expressed as *semester credit hours* according to the following decimal notations: (s 01.00) = 1 semester hour; (s 02.00) = 2 semester hours; (s 03.00) = 3 semester hours; etc. There are no fractional semester credit hours.

Undergraduate Courses

Information concerning additional summer dance and theatre courses is available through the Department of Performing Arts.

67.100 Introduction to the Performing Arts: Dance (c 1.00)

This course is designed for the student in any discipline wishing acquaintance with dance as an art form (ballet and modern). No previous knowledge of dance is required.

67.101 Introduction to Performing Arts: Theatre (c 01.00)

This course is designed to give any student a general overview of the performing and theatrical arts while at the same time investigating the role of theatre in society.

67.102 Theatre: The Interdisciplinary Art (c 01.00)

An interdisciplinary, team-taught course structured to explore the arts, the humanities, the social sciences, and the physical sciences as viewed through and as utilized by the theatrical art. Relationship will obviously be to each of the four CAS Faculties.

67.116 Stage Make-Up (c 00.25)

Introduction to stage make-up. Basics of stage make-up, make-up material, make-up lists, color charts, facial anatomy, corrective make-up.

67.130 Modern Dance I (c 00.50)

Development of the ability to communicate through movement.

67.131 Modern Dance II (c 00.50)

Continuation of Modern Dance I. *Prerequisite:* 67.130 or permission of instructor.

67.132 Modern Dance III (c 00.50)

Continuation of 67.131. *Prerequisite:* 67.131 or permission of instructor.

67.170 Oral Interpretation (c 01.00)

Analysis, interpretation, and practice in expressive reading of literature to develop ability in sharing literature with an audience.

67.200 Theatre: Individual Creative Expression (c 01.00)

This course will investigate and explore the innate creative capacities of individuals and attempt to stimulate and broaden each student's creative capabilities. Work will include improvisation, mimetic expression, theatre games and imagination expansion.

67.210 Intermediate Ballet (c 00.50 through 01.00)

Development of technical skills and performance ability in classical ballet vocabulary. *Prerequisite:* 67.131 or permission of instructor.

67.216 Methods of Teaching Dance (c 00.50)

Development of skills, techniques, and methods of teaching dance.

67.300 Theatre: Performance Techniques I (c 01.00)

67.301 Theatre: Performance Techniques II (c 01.00)

These courses, planned from performance point of view, integrate the works and talents of the actor, director and writer and introduce the student to the total theatrical experience.

67.303 Theatre: Production Techniques I (c 01.00)**67.304 Theatre: Production Techniques Laboratory (c 00.25)**

These courses are designed to provide exposure to and exploration of all visual, auditory and management phases of theatre and the performing arts. Areas covered include all phases of theatrical design and construction, management, publicity/public relations and the visual arts.

67.310 World Theatre: Beginning to the Renaissance (c 01.00)

Historical pattern of theatre as art form and social function from its earliest appearance through the Renaissance. *Prerequisite:* advanced undergraduate standing.

67.322 Stage Movement (c 01.00)

Analysis and understanding of the body movement as the actor's visual means of communication with an audience.

67.325 Rhythms and Accompaniment (c 01.00)

Development of an awareness of rhythms and understanding basic elements of time; application to dance composition and accompaniment.

67.326 History and Philosophy of Dance (c 01.00)

An understanding and appreciation of the contribution of dance to the cultural development of mankind.

67.335 Lighting Design (c 01.00)

Lighting instruments, control boards and the use of lighting as an integral part of play design for the performing arts. *Prerequisite:* permission of the instructor.

67.370 Speech and Voice for the Theatre (c 01.00)

Intended primarily for theatre majors concerned with development of effective techniques of voice and diction.

67.390 Independent Reading Course in Performing Arts (c 00.25 through 02.00)

See Independent Reading Courses and Study Projects under General Curriculum Information.

67.394 Modern American Theatre and Drama (c 01.00)

American drama from O'Neill to the present.

67.396 Selected Topics: Semester Theme Projects (c 00.50 through 01.00)

Course stresses extremely broad involvement for students wishing to study and focus on a particular idea, concept or philosophy (e.g., war, comedy, political satire, etc.). In addition, a student may select either a performance or non-performance experience. Experiences include attendance at performance/lecture/discussion groups as well as the completion of selected readings provided for inquiry into the particular semester theme concept. Following are the options open to students who wish a diversified inquiry:

Option A: (non-performance)

Experience all performance/lecture/discussion groups and fulfill selected readings.

Option B: (performance)

Student performs in performance groups and experiences all lecture/discussion groups. Completes reading list.

67.400 Advanced Methods of Teaching Modern Dance (c 01.00)

Understanding the value of dance education and development of approaches to teaching dance at various age levels.

67.401 Composition of Dance I (c 01.00)

Discovery of a rich movement vocabulary and techniques of choreography. *Prerequisite:* 67.132 or permission of instructor.

67.402 Composition of Dance II (c 01.00)

Continuation of 67.400. *Prerequisite:* 67.401 or permission of instructor.

67.421 Advanced Scene Design (c 01.00)

Fundamentals of design for the performing arts: preparation of sketches and drawings based upon the principal styles and periods in performing arts. *Prerequisite:* permission of instructor.

67.425 Costume Design (c 01.00)

The study of the history and design of theatrical costumes from the late 16th century to the present.

67.430 Workshop in Dance Production (c 01.00)

Development of techniques and the provision of experience in various phases of dance production. *Prerequisite:* 67.401 or permission of instructor.

67.490 Independent Study Project in Performing Arts (c 00.25 through 02.00)

See Independent Reading Courses and Study Projects under General Curriculum Information.

Graduate Courses

All courses listed below carry graduate credit. .500 level courses are open to graduate and qualified undergraduate students. Undergraduate students in .500 level courses receive one course unit for 3 or 4 semester hour credits. Courses at the .600 and .700 levels are open to graduate students only.

Information concerning additional summer dance courses and theatre is available through the Department of Performing Arts.

67.500 Advanced Methods of Teaching Modern Dance (s 03.00)

See description listed under 67.400 above.

67.501 Composition of Dance I (s 03.00)

See description listed under 67.401 above.

67.502 Composition of Dance II (s 03.00)

See description listed under 67.402 above.

67.521 Advanced Scene Design (s 03.00)

Fundamentals of design for the performing arts; preparation of sketches and drawings based upon the principal styles and periods in performing arts. *Prerequisite:* permission.

67.525 Costume Design (s 03.00)

The study of the history and design of theatrical costumes from the late 16th century to present.

67.526 History and Philosophy of Dance (s 03.00)

See description listed under 67.326 above.

67.530 Workshop in Dance Production (s 03.00)

See description listed under 67.430 above.

67.533 Advanced Directing (s 03.00)

Seminar laboratory course in problems of directing plays for the theatre.

67.543 Advanced Acting (s 03.00)

A seminar laboratory course dealing with the advanced study of the actor's problem with particular emphasis on various theatrical styles.

67.551 History of Theatre II (s 03.00)

Historical pattern of theatre as art form and social function from the Baroque to the present. *Prerequisite:* 67.310.

67.556 History of American Theatre (s 03.00)

The theatre in America as a cultural force from the colonial period to the present.

67.560 Creative Theory and Criticism (s 03.00)

Examination of historical theory and criticism of performing arts from Aristotle to the present with intensive study of those periods that directly relate to today. Required of all degree graduate students in performing arts. *Prerequisites:* 67.550 and 67.551.

67.562 Advanced Playwriting (s 03.00)

Theory and practice of advanced techniques of dramatic writing for theatre.

67.579 Seminar in Methods of Teaching Theatre (s 03.00)

Designed to acquaint the prospective theatre teacher with the philosophy, theory, practice and methods of theatre education.

67.590 Independent Reading Course in Performing Arts (s 01.00 through 06.00)

See Independent Reading Courses and Study Projects under General Curriculum Information.

67.591 Seminar in Theatre (s 03.00)

Problems in items of theatrical presentation of theatre history. Topics will be announced the semester the course is offered. May be repeated for credit.

67.602 Research Seminar in Performing Arts (s 03.00)

Required seminar of all degree graduate students in the Theatre Program. Study and practice in methods of research and writing. Research problems vary from semester to semester.

67.610 Problems in Theatrical Design (s 03.00)

Special design problems to meet the interests of individual students in design for drama, ballet and opera.

67.612 Problems in Technical Theatre (s 03.00)

An intensive study of particular phases of technical theatre for the graduate student.

67.650 Seminar in Theatre History (s 03.00)

Intensive study of one or more topics in broad range of theatre history through discussion, oral presentation, demonstration and written assignments. *Prerequisites:* 67.550-.551 or their equivalent.

67.690 Independent Study Project in Performing Arts (s 01.00 through 06.00)

See Independent Reading Courses and Study Projects under General Curriculum Information.

67.696 Selected Topics: Semester Theme Projects (s 02.00 through 03.00)

Course stresses extremely broad involvement for students wishing to study and focus on a particular idea, concept, or philosophy (e.g., war, comedy, political satire, etc.). In addition, a student may select either a performance or non-performance experience. Experiences include attendance at performance/lecture/discussion groups as well as the completion of selected readings provided for inquiry into the particular semester theme concept. Following are the options open to students wishing a diversified inquiry:

Option A: (non-performance)

Experience all performance/lecture/discussion groups and fulfill selected readings.

Option B: (performance)

Student performs in performance groups and experiences all lecture/discussion groups. Completes reading list.

67.797 Master's Thesis Seminar (s 03.00 through 06.00)**67.798 Non-Thesis Option Seminar (s 03.00 through 06.00)**

Philosophy and Religion

Correspondence Directory: Roger T. Simonds, *Chairman*

Fields of Study

Biblical theology, comparative religion, Eastern philosophy, epistemology, ethics, history of philosophy, Jewish philosophy, Jewish religion, logic, metaphysics, philosophy of religion, philosophy of science, philosophical theology, social philosophy.

Full-time Faculty

Professor: Harold A. Durfee (William Frazer McDowell Professor), Theodore R. Rosché, Roger T. Simonds

Associate Professor: Charley Dean Hardwick, Heimo Hofmeister, David F. T. Rodier, Charles S. J. White

Assistant Professor: Barry Blose, Phillip H. Scribner

Visiting Professor: Michael Krausz (1973-74), Donald B. Locke (Spring 1973), Ludwig Landgrebe (Spring 1972), Howard Kahane (Fall 1971), John A. Maurant (1970-71)

Exchange Professor: Thomas R. Flynn (Fall 1973), Allen B. Wolter (Fall 1972)

Undergraduate Degree

Bachelor of Arts

Composition and Reading Requirement—See Undergraduate Degree Requirements under General Academic Regulations.

Language Requirement—See Undergraduate Degree section under the College of Arts and Sciences.

Departmental Requirements

PHILOSOPHY

The major in Philosophy is offered to lead to a degree at either of two levels:

(1) Degree in Philosophy

Requirements: (a) *Major Courses*. 9 courses in philosophy (of which three may be in religion) with at least a Pass in all major or major related courses; (b) *Related Courses*. 3 additional courses at the .300 level or above in a single department with the same grade requirement as above.

(2) Degree in Philosophy—Honors

Requirements: (a) *Major Courses*. 9 courses in philosophy, including 47.100, 47.300, 47.301. Among major courses one may include up to three in religion at the .300 level or above. No more than three major or related courses may be taken on a pass/fail basis. (b) *Related Courses*. Three additional courses at the .300 level or above in a single department or area. (c) In the senior year students for this degree in philosophy will take two semesters of 47.498, Honors Project in Philosophy, in the context of which they will prepare a senior thesis on a suitable topic for presentation to and acceptance by the department before graduation. These two courses may be counted among the 9 major courses. Instead of taking two semesters of 47.498, a student for the Honors Degree may choose to take a final Comprehensive Examination, one part of which will be based upon an acceptable research paper submitted by the student. (d) One language through the intermediate level: French, German, Greek, Latin. Another language may be offered, with permission, if related to the student's research interests.

RELIGION

The major in Religion is offered to lead to a degree at either of two levels:

(1) Degree in Religion

Requirements: (a) *Major Courses*. 9 courses in religion of which three may be in philosophy with at least a Pass in all major or major related courses; (b) *Related Courses*. 3 additional courses at the .300 level or above in a single department with the same grade requirement as above.

(2) Degree in Religion—Honors

Requirements: (a) *Major Courses*. 9 courses in religion to include two from among 47.150, 47.170, 47.180. The student will also take 47.183. Among major courses one may include up to 3 in philosophy at the .300 level or above. No more than 3 major or related courses may be taken on a pass/fail basis. (b) *Related Courses*. 3 additional courses at the .300 level or above in a single department. (c) In the senior year students for the Honors Degree in Religion will take two semesters of 47.490, Independent Study Project in Religion (or 47.498, Honors Project in Religion) in the context of which they will prepare a senior thesis on a suitable topic for presentation to and acceptance by the department before graduation. These two courses may be counted among the 9 required major courses. Instead of taking two semesters of 47.490 one may choose to take a final Comprehensive Examination, one part of which will be based upon an acceptable research paper. (d) One language through the intermediate level: French, German, Spanish, Latin, Greek, Hebrew, Sanskrit. Another language may be offered, with permission, if related to the student's research interests.

Graduate Degrees

Candidates for graduate degrees in all departments are subject to University Graduate Degree Requirements (see Graduate Degree Requirements under General Academic Regulations). Requirements given below list the minimal requirements from a departmental point of view. University requirements that exceed these requirements are nonetheless binding upon the student.

Master of Arts in Philosophy

Two means are available for achieving an M.A. degree in philosophy:

FIRST METHOD

Course Requirements

Minimum of 30 hours of approved graduate work including 47.797 Master's Thesis Seminar (6).

Written Comprehensive Examination

One eight-hour examination in philosophy (administered in two days, four hours each day). Examination fields 47.01A and 47.01B Philosophy.

Other Requirements

Proficiency examination in French or German. Thesis and oral defense of thesis.

SECOND METHOD

Admission to a Ph.D. program and satisfactory completion of all requirements for the program except the dissertation.

Master of Arts in Religion

Course Requirements

Minimum of 30 hours of approved graduate work, including 47.797 Master's Thesis Seminar (6).

Comprehensive Examination Fields

Three are required, including one in the history of religions with special emphasis upon a selected non-Christian religion, one in the English Bible with special emphasis upon a selected author, and one in the History of Christian Thought with special emphasis upon a selected classical figure, or a related field.

- 47.003 History of Religions (with special emphasis upon a selected non-Christian religion).
- 47.004 English Bible (special emphasis upon a selected author).
- 47.021 History of Christian Thought (with special emphasis upon a selected classical figure in the same).

Other Requirements

Proficiency examination in French, German, Greek or Hebrew. Thesis and oral defense of thesis.

Doctor of Philosophy in Philosophy

General Requirements

See Graduate Degree Requirements under General Academic Regulations.

Minimum of 72 hours of approved graduate work are required of which at least 30 hours (plus 12–24 hours of dissertation seminar) must be completed in residence at The American University. Two substantial papers must be presented within one year after residence hours have been completed and prior to advancement to candidacy.

Admission

For admission consideration it is recommended that a student have a superior under-

graduate record and take the Graduate Record Examination including the Philosophy Examination. Two letters of recommendation are required.

Course Requirements

Seventy-two hours including up to 48 hours of graduate seminar in philosophy, and 12 to 24 hours of dissertation seminar.

Tools of Research

Two language proficiency examinations, French and German, or acceptable substitutes are necessary.

Written Comprehensive Examinations

One written comprehensive examination must be taken before completion of 24 credit hours of course work.

Four are required to include:

Logic and Epistemology
Metaphysics

Two are to be chosen from:

Ethics
Philosophy of Religion
Philosophy of Science
Social Philosophy

Oral Comprehensive Examination

One is required in a field selected by the student and with departmental approval.

Comprehensive Examination Fields

47.010 Logic and Epistemology
47.015 Metaphysics
47.020 Ethics
47.025 Philosophy of Religion
47.030 Philosophy of Science
47.035 Social Philosophy

Advancement to Candidacy

Upon successful completion of the comprehensive examinations and with departmental approval, the student will be advanced to candidacy for the doctoral degree.

Dissertation and Oral Defense

The doctoral candidate is required to enroll for 12–24 hours of dissertation seminar. The dissertation topic must be proposed within six months after passing comprehensive examinations.

Courses of Instruction

Undergraduate level course values are expressed as *course units* according to the following decimal notations: (c 00.25) = $\frac{1}{4}$ course unit; (c 00.50) = $\frac{1}{2}$ course unit; (c 00.75) = $\frac{3}{4}$ course unit; (c 01.00) = 1 course unit; (c 01.50) = $1\frac{1}{2}$ course units; etc.

Graduate level course values are expressed as *semester credit hours* according to the following decimal notations: (s 01.00) = 1 semester hour; (s 02.00) = 2 semester hours; (s 03.00) = 3 semester hours; etc. There are no fractional semester credit hours.

Undergraduate Courses

PHILOSOPHY

47.100 Logic and the Scientific Method (c 01.00)

The nature of valid inference and its relation to the scientific method. Principles of inductive and deductive reasoning.

47.101 Introduction to Philosophy (c 01.00)

Questions man has asked about himself, the world, and the origin, purpose and destiny of life; representative answers given by the great thinkers.

47.102 Philosophies Men Live By (c 01.00)

Selected philosophers in the history of Western thought; their relevance to human existence.

47.300 History of Philosophy: Ancient and Medieval (c 01.00)

History of western philosophy from earliest period through 16th century. Understanding the various philosophers in terms of general cultural milieu. History of philosophy during this period interpreted in terms of formation of classical world-view and the accommodation of this world picture to requirements of Judaism, Christianity, and Islam. No previous philosophic training assumed and non-philosophy majors are encouraged to correlate history of philosophy with historical aspects of their own discipline. Not open to freshmen.

47.301 History of Philosophy: Modern (c 01.00)

Close textual study of chief 17th- and 18th-century European philosophers. Class work directed mainly toward exposing philosophic arguments to critical examination and secondarily toward exhibiting view in historical context. No philosophic training on the part of student is presupposed.

47.302 History of Philosophy: Recent (c 01.00)

Philosophers from Hegel to contemporary existentialism and linguistic analysis. Not open to freshmen.

47.303 American Philosophy (c 01.00)

Backgrounds and substance of American Philosophy since colonial times. Role of philosophical ideas, European and indigenous, in the growth of the American culture. *Prerequisite*: one course in philosophy.

47.305 Philosophies of the East (c 01.00)

Systems of thought in the East from ancient to modern times. Special emphasis upon philosophies of Confucianism, Taoism, Hinduism, and Buddhism.

47.310 Ethics (c 01.00)

Inquiry into the principles of moral evaluation, their relation to factual judgment and individual and social behavior. Evaluation of traditional schools and theories of ethics. *Prerequisite*: one course in philosophy.

47.311 Aesthetics (c 01.00)

Nature of beauty and the relation of the philosophy of the beautiful to fine arts and human experience. *Prerequisite*: one course in philosophy.

47.390 Independent Reading Course in Philosophy (c 00.25 through 02.00)

See Independent Reading Courses and Study Projects under General Curriculum Information.

47.396 Selected Topics (c 01.00)

See Non-Recurring Selected Topics Courses under General Curriculum Information.

47.490 Independent Study Project in Philosophy (c 00.25 through 02.00)

See Independent Reading Courses and Study Projects under General Curriculum Information.

47.498 Honors Project in Philosophy (c 02.00)**Graduate Courses**

All courses listed below carry graduate credit. .500 level courses are open to graduate and qualified undergraduate students. Undergraduate students in .500 level courses receive one course unit for 3 or 4 semester hour credits. Courses at the .600 and .700 levels are open to graduate students only.

47.500 Studies in Major Philosophers (s 03.00)

Reading and analysis of leading historical philosophers. Regularly recurring courses are:

Pre-Socratics; Plato; Aristotle; Neoplatonism; and Augustine. Recent offerings have included: Fichte's Science of Knowledge; British Empiricists; Problems of Schelling's Positive Philosophy; Neo-Confucianism. *Prerequisite*: three courses in philosophy or permission.

47.502 Studies of Recent Philosophers (s 03.00)

Reading and analysis of selected philosophers since Hegel as the background of contemporary philosophical movements. Recent offerings have included: British and American Idealism; Nietzsche; Kierkegaard; Husserl. *Prerequisite*: three courses in philosophy or permission.

47.504 Contemporary Philosophy (s 03.00)

Study of a leading contemporary movement in philosophy. Regular recurring courses are: Post-Existential Phenomenology; French Existentialism; German Existentialism; Naturalism. Recent offerings have included: J. L. Austin; Rawls's Theory of Justice. *Prerequisite*: three courses in philosophy or permission.

47.506 Selected Topics in Philosophical Analysis (s 03.00)

Selected issues in philosophy. Regularly recurring courses are: Knowledge and Belief; Memory and the Past; Meaning and Meaningfulness; Thought and Feeling; Mind and Soul; Consciousness and Alienation in Sartre; Chinese Philosophy. Recent offerings have included: The Concept of Freedom; Philosophy of Science; Responsibility; Philosophy of Action and Will; Mind and Identity; Philosophy of the Social Sciences; Metaphysics and Meta-Philosophy; Philosophy of Religion in German Idealism; The Analysis and Explanation of Action; The Boundaries of Ethics; Existential Behavior; Analytic Philosophy and Phenomenology. *Prerequisite*: three courses in philosophy or permission.

47.508 Philosophy of Religion (s 03.00)

Study of a leading contemporary movement in philosophy of religion. *Prerequisite*: three courses in philosophy or permission.

47.520 Symbolic Logic (s 03.00)

An introduction to modern symbolic methods in deductive reasoning with some discussion of the merits of competing systems and the philosophical issues involved. No special knowledge of mathematics required. *Prerequisite*: 47.100 or permission.

47.521 Logical Analysis (s 03.00)

Application of logical theory to philosophical discourse. Topics will include the concept of truth, propositions, theory of descriptions, existential import, modal and deontic functions. *Prerequisite*: 47.520.

47.525 Philosophy of Science (s 03.00)

Relationship of modern philosophy to the findings of modern science. *Prerequisite*: 47.100.

47.530 Social Philosophy (s 03.00)

Leading proposals regarding the philosophical foundation of modern culture and society. *Prerequisite*: three courses in philosophy or permission.

47.590 Independent Reading Course in Philosophy (s 01.00 through 06.00)

See Independent Reading Courses and Study Projects under General Curriculum Information.

47.690 Independent Study Project in Philosophy (s 01.00 through 06.00)

See Independent Reading Courses and Study Projects under General Curriculum Information.

47.702 Graduate Seminar in Philosophy (s 03.00 through 12.00)

Intensive study of selected philosophical problems under individual direction. *Prerequisite*: four courses in philosophy. *Multiple registrations of 3 semester credit hours each through a maximum of 12 credit hours are permitted during a semester.*

Topics:	History of Philosophy	Value Theory
	Metaphysics	Philosophy of Religion
	Logic	Social Philosophy
	Epistemology	Eastern Philosophy
	Philosophy of Science	

47.797 Master's Thesis Seminar (s 03.00 through 06.00)

Directed research of M.A. thesis proposal. *Prerequisite:* permission.

47.799 Doctoral Dissertation Seminar (s 03.00 through 24.00)

Directed research of Ph.D. dissertation proposal. *Prerequisite:* permission.

Undergraduate Courses**RELIGION****BIBLICAL STUDY****47.150 Introduction to Hebrew Scriptures (c 01.00)**

Emphasis upon the substantive content of the Old Testament, with special attention paid to the historical and cultural background of the text.

47.170 Introduction to the New Testament (c 01.00)

Literary, historical and theological study of the New Testament with particular attention upon Jesus, Paul and the development of the Christian movement.

RELIGIOUS THOUGHT**47.180 Introduction to Religious Thought (c 01.00)**

Investigation of nature of religion and of differing methodologies for the study of religion with emphasis on problems of religion and society, man's attempt to understand his nature and destiny, religion and the quest for wholeness, modern man and the question of transcendence.

47.320 History of Jewish Thought I (c 01.00)

Development of Jewish thought from covenantal prophecy in Hebrew Scripture to ethics and philosophy in the Middle Ages, with attention to social factors and their intellectual repercussions.

47.321 History of Jewish Thought II (c 01.00)

Impact of historical events on Jewish thought from 1492 Spanish expulsion to the present.

47.350 Special Studies in Jewish Religious Thought (c 01.00)

Offerings will alternate by semester and include: Jewish Mysticism; Modern Jewish Philosophy; Biblical Theology; Jewish Existentialism; Conceptions of Jewish History; Mediaeval Jewish Philosophy; and American Judaism. *Prerequisite:* 47.320 and 47.321.

47.370 The Religious Heritage of the West (c 01.00)

Consideration of contribution of Western Religious heritage to developing ethos of Western man, from Mesopotamian, Greek, and Jewish roots through rise of Christianity and Islam to Middle Ages, Reformation, and beginnings of the modern secularization process.

47.374 Topics in Contemporary Religious Discussion (c 01.00)

Recent offerings have included: African Thought; Religious Non-Violence; The Historical Jesus and His Interpreters; Contemporary Religious Thought; Contemporary Jewish Thought; The Wisdom Literature; The Prophets; Judaism and Christianity; The Search for a New Religious Life Style.

47.380 Psychology of Religion (c 01.00)

Psychological appraisal of religious experience, prayer, worship, belief, interpersonal relationships, religious practices and behavior.

47.390 Independent Reading Course in Religion (c 00.25 through 02.00)

See Independent Reading Courses and Study Projects under General Curriculum Information.

HISTORY OF RELIGION**47.183 Comparative Religion (c 01.00)**

Historical-religious study of the world's major living religions: Shinto, Confucianism, Taoism, Buddhism, Hinduism, Islam, Christianity, Judaism, and including attention to basic problems

in understanding someone else's religion. Course includes films, slide lectures, field trips, and guest lecturers.

47.394 Post-Biblical Judaism (c 01.00)

Judaism from the Maccabean period to the present. Selected philosophical, theological, institutional movements in Jewish faith and practice. *Prerequisite:* 47.150.

47.490 Independent Study Project in Religion (c 00.25 through 02.00)

See Independent Reading Courses and Study Projects under General Curriculum Information.

47.498 Honors Project in Religion (c 02.00)

Graduate Courses

All courses listed below carry graduate credit. .500 level courses are open to graduate and qualified undergraduate students. Undergraduate students in .500 level courses receive one course unit for 3 or 4 semester hour credits. Courses at the .600 and .700 levels are open to graduate students only.

47.550 Studies in Non-Christian Religions (s 03.00)

Selected leaders, movements, structures, and approaches to the study of the world's religions are the concerns of class work. Emphasis is placed upon the major non-European religions but some comparative analysis includes material from Judaism, Christianity, classical religions and archaic religions. Regularly recurring courses are: Methodology of the History of Religions; Buddhism; Hinduism; Islam; New Religious Movements.

47.560 Selected Biblical Studies (s 03.00)

Study of selected topics in Biblical literature. Recent offerings have included: Paul and the Development of Earliest Christianity; Jesus and the Gospels; The Gospel of John and the Revelation of John; The Person and the Work of Jesus; New Testament Messianism and Christology; The Life and Teachings of Jesus. *Prerequisite:* permission.

47.570 Problems of Religious Thought (s 03.00)

Examination of basic problems and issues in religious thought, both classical and contemporary. Recent offerings have been: The Thought of Reinhold Niebuhr; The Philosophical Theology of Paul Tillich; Non-Theological Approaches to the Study of Religion; Radical Theology and the Death of God; Bultmann; God Talk; The Problem of God. *Prerequisite:* two courses in philosophy and/or religion.

47.590 Independent Reading Course in Religion (s 01.00 through 06.00)

See Independent Reading Courses and Study Projects under General Curriculum Information.

47.690 Independent Study Project in Religion (s 01.00 through 06.00)

See Independent Reading Courses and Study Projects under General Curriculum Information.

47.797 Master's Thesis Seminar (s 03.00 through 06.00)

Directed research of M.A. thesis proposal. *Prerequisite:* permission.

Physical Education

Correspondence Directory: Robert H. Frailey, *Chairman*

Fields of Study

Health education, physical education, athletic administration, coaching, recreational leadership.

Full-time Faculty

Professor: Robert H. Frailey, Daniel S. Geiser, Virginia E. Hawke

Associate Professor: Billy G. Coward, Josephine W. Hubbell, Barbara J. Reimann

Assistant Professor: James D. Frady, Jr., Robert C. Karch, Lawrence G. Nyce, Jr., Joseph R. Rogers

Instructor: Peter Mehlert

Undergraduate Degrees

Bachelor of Science and Bachelor of Arts in Physical Education

The Bachelor of Science degree prepares the student to meet certification requirements for teaching physical education. This is the degree usually taken by most students in physical education.

The Bachelor of Arts degree offers the student competencies in the major with the exception of the professional courses.

The department also is able to assist students in planning an interdisciplinary program leading to a Bachelor of Science or Bachelor of Arts degree.

Admission to the Major

Freshmen and transfer students are admitted. Academic standards are the same as the University standards.

Composition and Reading Requirement—See Undergraduate Degree Requirements under General Academic Regulations.

Language Requirement—See Undergraduate Degree section under the College of Arts and Sciences.

Departmental Requirements

Major courses in fields of study.

PHYSICAL EDUCATION

CONTENT COURSES—*Basic courses in the discipline*

- 49.100 Physical Education Activities (half course each; minimum of four half courses at the .100 level)
- 49.221 Foundations and History of Physical Education and Sport
- 49.315 Care and Prevention of Athletic Injuries
- 49.330 Health and Safety
- 49.421 Organization and Administration of Health and Physical Education
- 49.424 Kinesiology (*prerequisites*: 15.101, 09.110, 09.330, and 09.331)
- 49.500 Measurement and Evaluation of Health and Physical Education

PROFESSIONAL COURSES—*Required for teacher certification*

- 49.210 Methods and Materials in Physical Education
- 49.211–49.218 Laboratory Teaching Skills (half course each; minimum of five half courses should be selected, one of which must be 49.217)
- 49.310 Elementary School Rhythmic Activities
(For elementary school physical education majors in place of one 49.200 level Laboratory Teaching Skills course.)
- 49.335 Elementary School Games
(For elementary school physical education majors in place of one 49.200 level Laboratory Teaching Skills course.)

TOOL AND RELATED COURSES—*Courses required for teacher preparation are listed below.*

HEALTH EDUCATION

These courses may be taken in combination with a major in another discipline.

CONTENT COURSES

- 49.315 Care and Prevention of Athletic Injuries
- 49.330 Health and Safety
- 49.421 Organization and Administration of Health, Physical Education and Athletics (for those preparing to teach)
- 49.510 Health Education

TOOL AND RELATED COURSES—Information concerning courses in other departments is available in the Department of Physical Education.

ATHLETIC ADMINISTRATION, COACHING, AND RECREATIONAL LEADERSHIP

These courses may be taken in combination with a major in another discipline.

CONTENT COURSES

- 49.221 Foundations and History of Physical Education and Sport
- 49.315 Care and Prevention of Athletic Injuries
- 49.324 Principles and Psychology of Coaching
- 49.421 Organization and Administration of Health and Physical Education
- 49.550 Recreation Programs

PROFESSIONAL COURSES

- 49.211–49.218 Laboratory Teaching Skills (half course each; minimum of two half courses)

TOOL AND RELATED COURSES—Information concerning courses in other departments is available in the Department of Physical Education.

RELATED COURSES FOR TEACHER PREPARATION

- 21.300 Foundations of Education
- 21.320 Psychology of Education
- 21.342 Methods of Teaching in Secondary Schools: General (For Health Education Teachers only)
- 21.444 Student Teaching: Early Childhood and Elementary or
- 21.445 Student Teaching: Secondary Schools

Graduate Degree

Candidates for graduate degrees in all departments are subject to University Graduate Degree Requirements (see Graduate Degree Requirements under General Academic Regulations).

Master of Education: Speciality Field in Physical Education

A Master's Degree is awarded with an emphasis in Physical Education through the Department of Education. For Department of Education requirements see information in that section of this *Catalog*.

Courses of Instruction

Undergraduate level course values are expressed as *course units* according to the following decimal notations: (c 00.25) = $\frac{1}{4}$ course unit; (c 00.50) = $\frac{1}{2}$ course unit; (c 00.75) = $\frac{3}{4}$ course unit; (c 01.00) = 1 course unit; (c 01.50) = $1\frac{1}{2}$ course units; etc.

Graduate level course values are expressed as *semester credit hours* according to the following decimal notations: (s 01.00) = 1 semester hour; (s 02.00) = 2 semester hours; (s 03.00) = 3 semester hours; etc. There are no fractional semester credit hours.

Undergraduate Courses

49.100 Swimming I (c 00.50)

Development of basic skills and personal safety in swimming. For non-swimmers.

49.101 Swimming II (c 00.50)

Continuation of 49.100. *Prerequisite*: intermediate level.

49.102 Life Saving (c 00.50)

Development of safety skills, use of life saving equipment and techniques of swimming rescues. *Prerequisites*: 49.101 or permission of instructor.

49.103 Skin Diving and Survival Swimming (c 00.50)

Basic use of equipment and techniques of underwater photography and spear fishing.

49.104 SCUBA (c 00.50)

Techniques in the use of self-contained underwater breathing apparatus. *Prerequisite:* 49.103 or permission of instructor.

49.105 Springboard Diving (c 00.50)

Development of beginning and advanced diving skills.

49.106 Synchronized Swimming (c 00.50)

Skills and techniques of individual figures, partner stunts and formations; choreography and production of original routines.

49.107 Small Craft I (c 00.50)

Development of basic skills in small craft handling. *Prerequisite:* permission of instructor.

49.108 Small Craft II (c 00.50)

Continuation of 49.107. *Prerequisite:* 49.107 or permission of instructor. Red Cross Instructor's Certificate may be obtained.

49.110 Bowling I (c 00.50)

Development of basic skills in bowling.

49.111 Bowling II (c 00.50)

Continuation of 49.110. *Prerequisite:* 49.110 or equivalent experience in ten pin bowling.

49.120 Karate I (Women) (c 00.50)

Development of basic defensive skills of karate.

49.121 Karate I (Men) (c 00.50)

Development of basic defensive skills of karate.

49.122 Karate II (Women) (c 00.50)

Continuation of 49.120 with an emphasis upon karate as a sport. *Prerequisite:* 49.120 or permission of instructor.

49.123 Karate II (Men) (c 00.50)

Continuation of 49.121 with an emphasis upon karate as a sport. *Prerequisite:* 49.121 or permission of instructor.

49.124 Wrestling (c 00.50)

Development of wrestling skills.

49.140 Fencing I (c 00.50)

Development of basic skills of foil fencing.

49.141 Fencing II (c 00.50)

Continuation of 49.140 with emphasis upon competition. *Prerequisite:* 49.140 or permission of instructor.

49.150 Golf I (c 00.50)

Development of basic skills of golf.

49.151 Golf II (c 00.50)

Continuation of 49.150. With emphasis upon actual participation on the golf course. *Prerequisite:* 49.150 or prior instruction.

49.160 Trampoline and Floor Exercise I (c 00.50)

Development of basic skills of trampoline, tumbling and floor exercise.

49.161 Trampoline and Floor Exercise II (c 00.50)

Continuation of 49.160. *Prerequisite:* 49.160 or permission of instructor.

49.162 Gymnastics—Apparatus I (c 00.50)

Development of basic skills of gymnastic apparatus work.

49.163 Gymnastics—Apparatus II (c 00.50)

Continuation of 49.162. *Prerequisite:* 49.162 or permission of instructor.

49.170 Recreational Activities (c 00.50)

Development of skills of selected individual, dual and team activities with emphasis upon seasonal sports. Content varies. May be repeated for credit.

49.171 Horseback Riding (c 00.50)

Development of basic equestrian skills.

49.174 Folk and Square Dance (c 00.50)

Development of skills and understanding of the dances of various cultures including ethnic dances of this country.

49.180 Tennis I (c 00.50)

Development of basic skills of tennis.

49.181 Tennis II (c 00.50)

Continuation of 49.180. *Prerequisite:* 49.180 or permission of instructor.

49.182 Tennis III (c 00.50)

Continuation of 49.181. For advanced players. *Prerequisite:* 49.181 or permission of instructor.

49.190 Fitness Workshop (c 00.50)

Progression of cardio-vascular build-up and development of skills in a system of physical exercise for bodily control including aerobics and yoga.

49.191 Weight Training (c 00.50)

Development of weight training skills.

LECTURE COURSES**49.210 Methods and Materials in Physical Education (c 01.00)**

Principles and techniques of instruction applicable to physical education at elementary and secondary school levels. Includes laboratory work.

**49.211 Techniques of Hockey/Physical Conditioning (Women) (c 00.50)
Techniques of Football/Wrestling (Men) (c 00.50)**

Development of skills, techniques and methods of teaching each activity.

49.212 Techniques of Soccer/Volleyball (c 00.50)

Development of skills, techniques and methods of teaching each sport, including rules and organization.

**49.213 Techniques of Basketball/Softball (Women) (c 00.50)
Techniques of Basketball/Baseball (Men) (c 00.50)**

Development of skills, techniques and methods of teaching each sport including rules and team organization.

49.214 Techniques of Gymnastics/Track and Field (c 00.50)

Development of skills, techniques and methods of teaching each activity.

49.215 Methods of Teaching Swimming (c 00.50)

Development of skills, techniques and methods of teaching swimming and coaching. *Prerequisite:* permission of instructor.

49.217 Methods of Teaching Individual, Dual and Recreational Activities (c 00.50)

Development of skills, techniques and methods of teaching individual and dual sports and recreational activities. *Prerequisites:* 49.210 or permission of department advisor.

49.218 Techniques of Officiating (c 00.50)

Rules and officiating techniques of selected sports. Supervised practice in officiating. May be repeated for credit.

49.221 Foundations and History of Physical Education and Sport (c 01.00)

Introduction to the professions of health education, physical education and recreation. Historical growth and development of physical education and competitive sport.

49.301 Water Safety (c 00.50)

Preparation for teaching swimming and diving. Techniques of aquatic safety leading to a Red Cross Water Safety Instructor's Certificate. *Prerequisite:* Senior Life Saving.

49.310 Elementary School Rhythmic Activities (c 01.00)

Survey of materials and methods of teaching fundamental movement rhythms and singing games at the elementary school level.

49.315 Care and Prevention of Athletic Injuries (c 01.00)

Introduction to the basic concepts and techniques in the prevention, treatment and rehabilitation of sports injuries; implications for conducting an adapted physical education program at the secondary school level. Practical application of first aid therapeutic measures.

49.324 Principles and Psychology of Coaching (c 01.00)

Principles and techniques of coaching athletic teams; emphasis on the psychology of teaching and motivating athletes.

49.330 Health and Safety (c 01.00)

Fundamentals of health education for the prospective teacher.

49.335 Elementary School Games (c 01.00)

Survey and application of physical education instruction and movement exploration for elementary school children.

49.340 Camping and Outdoor Education (c 01.00)

Philosophical bases of camp instruction and outdoor education and its implications for the curriculum. Theory and practice of techniques for camping. Field trips and observations arranged. *Prerequisite:* permission of instructor.

49.390 Independent Reading Course in Physical Education (c 00.25 through 02.00)

See Independent Reading Courses and Study Projects under General Curriculum Information.

49.421 Organization and Administration of Health, Physical Education and Athletics (c 01.00)

Principles of organizing and administering health, physical education and athletic programs. Consideration of personnel, schedules, equipment, facilities, curriculum, and related problems.

49.424 Kinesiology (c 01.00)

Mechanical principles as they apply to the performance of motor skills, and physiological changes as they occur in the body during and after activity.

49.490 Independent Study Project in Physical Education (c 00.25 through 02.00)

See Independent Reading Courses and Study Projects under General Curriculum Information.

Graduate Courses

All courses listed below carry graduate credit. .500 level courses are open to graduate and qualified undergraduate students. Undergraduate students in .500 level courses receive one course unit for 3 or 4 semester hour credits. Courses at the .600 and .700 levels are open to graduate students only.

49.500 Measurement and Evaluation in Health and Physical Education (s 03.00)

Purposes and principles of measurement and evaluation in health and physical education. Survey of selected tests and basic statistical techniques for interpretation of results.

49.510 Health Education (s 03.00)

Survey and interpretation of current trends and thinking in health education.

49.520 Current Problems, Trends and Research in Physical Education (s 03.00)

Identification of current problems in the profession and a survey and interpretation of research and trends pertaining to them. Content will vary with each semester. May be repeated for credit.

49.530 Curriculum in Physical Education (s 03.00)

Principles and procedures of curriculum development in physical education.

49.550 Recreation Programs (s 03.00)

Survey of agencies and programs in the field of recreation with attention to principles and techniques for conducting these programs.

49.590 Independent Reading Course in Physical Education (s 01.00 through 06.00)

See Independent Reading Courses and Study Projects under General Curriculum Information.

49.601 Workshop in Health, Physical Education and Recreation (s 03.00)

Investigation of a specific timely topic in the area of health, physical education or recreation. Content will vary with each semester. May be repeated for credit.

49.610 Planning Facilities for Health, Physical Education and Recreation (s 03.00)

Principles, criteria, and standards used in planning facilities for health, physical education and recreation.

49.620 Philosophy of Physical Education (s 03.00)

Exploration in depth of the eclectic rationale of physical education.

49.630 Sociology of Sport (s 03.00)

Investigation of sport as a socio-cultural phenomenon.

49.690 Independent Study Project in Physical Education (s 01.00 through 06.00)

See Independent Reading Courses and Study Projects under General Curriculum Information.

Physics

Correspondence Directory: Mark Harrison, *Chairman*

Fields of Study

Solid and liquid state physics, thermal and statistical physics, atomic and quantum electronics, nuclear and particle physics, advanced quantum theory, general relativity, acoustics, societal science, innovative teaching methods.

Full-time Faculty

Professor: Earl R. Callen, Mark Harrison, Howard R. Reiss, Bancroft Sitterly (Emeritus), John A. White

Associate Professor: Richard Berendzen, Benson T. Chertok, Richard B. Kay, Henning W. Leidecker, Romeo A. Segnan, Richard V. Waterhouse

Assistant Professor: E. Kevin Cornell

Undergraduate Degrees

Bachelor of Arts and Bachelor of Science

Admission to the Major

The department counsels freshmen and transfer students. Formal admission to the major requires a 2.00 average and approval of the department undergraduate advisor.

Bachelor of Arts

The purpose of this program is to acquaint the student with the societal implications of science, and physics in particular, and to prepare him for an informed and creative role in this important area of human concern.

Composition and Reading Requirement—See Undergraduate Degree Requirements under General Academic Regulations.

Language Requirement—See Undergraduate Degree section under the College of Arts and Sciences.

Departmental Requirements

At least 3 courses from the following are required:

- 51.103 Science and Public Policy
- 51.200 Physics as Natural Philosophy
- 51.204 Population, Resources, and the Energy Crisis
- 51.205 Arms Control, Politics, and Science
- Either 51.210 Concepts in Physics or 51.220-.221 Introduction to Physics I, II.

Three additional courses at the .300-level or above chosen in consultation with the student's advisor and planned as a coherent program of study. One course may be taken in 51.490 Independent Projects in Societal Science.

TOOL AND RELATED COURSES

Appropriate courses in mathematics, chemistry, and biology to be planned with the advisor according to the educational and vocational goals of the student.

Electives

To complete a minimum of 32 units.

Bachelor of Science

Composition and Reading Requirement—See Undergraduate Degree Requirements under General Academic Regulations.

Language Requirement—See Undergraduate Degree section under the College of Arts and Sciences.

Departmental Requirements

Students planning to major in physics should register for 51.220-.221, Introduction to Physics I and II, and their laboratories at the earliest opportunity. Prior or concurrent registration in 41.110, Fundamentals of Mathematics, and 41.111, Calculus I, is required. It is urged that 51.220-.221 be taken in the freshman year if possible and the sophomore year at the latest.

While 51.220-.221, Introduction to Physics I and II, is the customary starting point for physics majors, students with good high school preparation can begin with 51.330, Basic Concepts in Mechanics, and 41.222, Calculus II.

MAJOR COURSES**Required**

- 51.220-.221 Introduction to Physics I and II
- 51.222-.223 Open Lab in Physics I and II
- 51.330 Basic Concepts in Mechanics
- 51.350 Basic Concepts in Electromagnetism
- 51.370 Basic Concepts in Modern Physics
- 51.452 Advanced Laboratory
- 51.560 Basic Concepts in Thermal Physics

Recommended for Graduate Preparation

- 51.500-.501 Introduction to Mathematical Physics I and II
- 51.530 Mechanics
- 51.551 Electromagnetism
- 51.570 Introduction to Quantum Mechanics
- 51.572 Atomic Physics
- 51.573 Nuclear Particle Physics
- 51.574 Introduction to Solid State Physics

RELATED COURSES (Recommended)

- 15.120-.130 General Chemistry I and II with laboratories, or high school chemistry.

TOOL COURSES

- 41.110 Fundamentals of Mathematics
- 41.111 Calculus I
- 41.222-.223 Calculus II and III
- 41.321 Differential Equations (*recommended*)

ELECTIVES

To complete a minimum of 32 units.

Graduate Degrees

Candidates for graduate degrees in all departments are subject to University Graduate Degree Requirements (see Graduate Degree Requirements under General Academic Regulations). Requirements given below list the minimal requirements from a departmental point of view. University requirements that exceed these requirements are nonetheless binding upon the student.

Master of Arts

General Requirements

A minimum of 30 hours of approved graduate work including 51.600-.601 Current Topics I and II (2) which should be taken during the first year of graduate work.

Program Requirements

The Master of Arts program is intended to be flexible so as to meet the needs of the students whose interests are in teaching, management, or other multidisciplinary activities. During the first semester of the course 51.600 Current Topics I, the student will select an advisor with whom his program will be planned.

Written Comprehensive Examinations

Two approved fields: 51.001 Mechanics, Thermal and Statistical Physics, Mathematical Physics; 51.002 Electromagnetism, Quantum Mechanics and Applications.

Master of Science

General Requirements

A minimum of 30 hours of approved graduate work is required, including 6 credit hours of .600-.700 level research.

Core Courses

It is expected that the student will advance his knowledge of basic theory in the core areas of physics. Accordingly, the student will take many of the following core courses at an early date:

- 51.630-.631 Theoretical Mechanics I, II
- 51.650-.651 Electromagnetic Theory I, II
- 51.660-.661 Statistical and Thermal Physics I, II
- 51.670-.671 Quantum Mechanics I, II

While it is desirable to take all of these core courses inasmuch as they provide a conceptual foundation and are accordingly strongly represented on the comprehensive examinations, the student's program should also include such specialized courses as are required by the research training program. The appropriate balance of core courses and specialized courses should be worked out with the student's advisor as described below.

Research Training Program

In order to expedite the student's research training, it is required that the student during his first year of graduate work register sequentially for two semesters of 51.600-.601 Current Topics I and II (2). In the first semester of this course, he is required to select an advisor with whom he will plan a program of specialized courses to complement the appropriate core courses given above. The student then continues his research training by subsequently registering for six hours of either 51.795 Research Training Seminar or 51.797 Master's Thesis Seminar.

Written Comprehensive Examinations

Two approved fields: 51.001 Mechanics, Thermal and Statistical Physics, Mathematical Physics; 51.002 Electromagnetism, Quantum Mechanics and Applications.

Doctor of Philosophy

University Graduate Degree Requirements

See Graduate Degree Requirements under General Academic Regulations.

Qualifying Examination

The student is required to take a qualifying examination before completion of the first twenty-four credit hours after entrance into the doctoral program. The qualifying examination is the above M.S. comprehensive examination and may be waived by M.S. students who score a grade of Distinction.

Core Courses

The student is required to have completed 51.600-.601 Current Topics I and II (2), 51.630-.631 Theoretical Mechanics I and II (6), 51.650-.651 Electromagnetic Theory I and II (6), 51.660-.661 Statistical and Thermal Physics I and II (6), and 51.670-.671 Quantum Mechanics I and II (6).

Dissertation

Upon completion of the qualifying examination the student and his advisor are expected to assemble a dissertation committee to assist in the planning of his doctoral program. While the doctoral program is principally concerned with the development of creative scientists, the program is flexibly arranged to accommodate students who are primarily interested in undergraduate teaching, administration, or other interdisciplinary studies. The dissertation is to be 12-24 credit hours.

Tool of Research

Proficiency in a language, computer science, or other tool deemed appropriate by the student's dissertation committee.

Oral Examinations

The student is required to take two oral examinations, one in defense of his dissertation and one to cover the basic material relevant to the area of research.

Written Comprehensive Examination

Three approved examinations: 51.005, 51.006, 51.007 (Oral): Ph.D. Comprehensive Examinations I, II, III. These examinations cover the subject area of the dissertation and material relevant to the area of research.

Courses of Instruction

Undergraduate level course values are expressed as *course units* according to the following decimal notations: (c 00.25) = $\frac{1}{4}$ course unit; (c 00.50) = $\frac{1}{2}$ course unit; (c 00.75) = $\frac{3}{4}$ course unit; (c 01.00) = 1 course unit; (c 01.50) = $1\frac{1}{2}$ course units; etc.

Graduate level course values are expressed as *semester credit hours* according to the following decimal notations: (s 01.00) = 1 semester hour; (s 02.00) = 2 semester hours; (s 03.00) = 3 semester hours; etc. There are no fractional semester credit hours.

Undergraduate Courses

51.101 Sound, Light, and the Arts (c 01.00)

Sound and hearing; music: traditional, electronic and rock; light and vision; color, images, the eye and the camera; recording and reproduction of sound and light; the broadcast media. *Prerequisite*: a lively curiosity.

51.102 Science, Culture, and Life Styles (c 01.00)

The impact of science on society and life styles since the time of the Industrial Revolution. Topics will include: Darwin, Marx, Freud and the changes in man's sense of identity. Technological change, urbanization and alienation. The advance into the atomic age; nuclear war and nihilism. The case for balance and the adaption of science to man rather than the reverse. *Prerequisite*: a lively concern.

51.103 Science, and Public Policy (c 01.00)

Authoritarianism (religion and "communism") vs. science; Einstein, A-bombs and NASA; population, pollution and politics; public health and morals, birth control, abortion, artificial insemination and eugenics; XXX, organ transplants and drugs; electronic surveillance and rights of privacy; computers and data banks; traffic.

51.104 Sound and Music (c 01.00)

Nature of sound, musical sound and noise, hearing and the ear, noise pollution, traditional musical instruments, electronic music, hi-fi stereo and quadraphonic. *Prerequisite*: a lively curiosity.

51.106 Astronomy (c 01.00)

How big is the universe? What is in it? How old is it and how long will it endure? Is there (other) intelligent life in space? A non-mathematical discussion of relativity theory, normal stars, pulsars, black holes. Space travel and contact among galactic civilizations. *Prerequisite*: a lively curiosity.

51.200 Physics as Natural Philosophy (c 01.00)

The world view of the scientist: a look at galaxies, atoms, and life the way they are understood today. The vital ideas of physics, chemistry, and biology, together with ideas about ideas—how we know things. *Prerequisite*: a lively curiosity.

51.204 Population, Resources, and the Energy Crisis (c 01.00)

Population growth: models of population evolution; energy resources: fossil fuels, nuclear fission and fusion power, and solar energy; air and water resources; climate alterations planned and unplanned; food resources: the "green revolution," food from the sea, pesticides and fertilizers. *Prerequisite*: a lively concern.

51.205 Arms Control, Politics and Science (c 01.00)

The military, technology and national security—a historic view; nuclear and thermonuclear weapons; the cold war and the strategic arms race; LTB treaty, a case study; the present controversy on ABM and MIRV systems; SALT; the political and economic aspects of armament and disarmament. *Prerequisite*: a lively concern.

51.210 Concepts in Physics (c 01.00)

A non-mathematical presentation of the basic concepts of physics and related technological developments relevant to various areas of everyday life. *Prerequisite*: a lively curiosity.

51.220 Introduction to Physics I (c 01.00)

Basic physical concepts in the structure of matter and the macroscopic world; mechanics and electricity, atomic physics, waves and oscillations, molecules and heat. *Prerequisite*: 41.110, 41.111 recommended.

51.221 Introduction to Physics II (c 01.00)

Basic physical concepts in the structure of matter and the macroscopic world; electromagnetism, light, relativity, nuclear physics, structure of solids. *Prerequisites:* 51.220; 41.111.

51.222 Open Laboratory in Physics I (c 00.50)

Selected experiments to accompany 51.220. Experiments partially selected according to the student's interest and performed weekly at a time convenient to the student, during the open hours of the laboratory. *Prerequisite:* 51.220 or concurrent registration.

51.223 Open Laboratory in Physics II (c 00.50)

Selected experiments to accompany 51.221. Experiments partially selected according to the student's interest and performed weekly at a time convenient to the student, during the open hours of the laboratory. *Prerequisite:* 51.221 or concurrent registration.

51.310 Relativity: Space, Time and Motion (c 01.00)

The place of Newton and Einstein in intellectual history; Newtonian concepts of space, time and motion and their modification by Einstein. *Prerequisite:* 51.210 or 51.220.

51.311 The Electrical Age (c 01.00)

History, generation, and uses of electricity; transmission and reception of radio waves; lightning; magnetism; generation of light; atomic description of light and lasers. (Any needed mathematics will be taught as part of the course).

51.312 Nuclear Energy (c 01.00)

The need and the problem; nuclear power in the year 2000; physical description of nuclear fission, fusion, and radioactivity; technology of reactors; radiation as environmental problem; prospects for controlled thermonuclear fusion reactors.

51.330 Basic Concepts in Mechanics (c 01.00)

Vector analysis. Newton's laws and the dynamics of a particle. The harmonic oscillator. Conservative systems. Gravitational forces and potential. Central fields and the motions of planets and satellites. *Prerequisites:* 51.221; either 41.111 or 41.222, or concurrent registration.

51.350 Basic Concepts in Electromagnetism (c 01.00)

Electrostatics, potential theory, magnetic fields, Faraday and Ampere's laws, dielectric magnetic media, Maxwell's equations. *Prerequisite:* 51.330 or concurrent registration.

51.370 Basic Concepts in Modern Physics (c 01.00)

Electrons, protons, and the structure of matter, a historic view; the Rutherford-Bohr atom, the elements of quantum mechanics and its application to atomic, nuclear, and solid state physics. *Prerequisite:* 51.330.

51.390 Independent Reading Course in Physics (c 00.25 through 02.00)

See Independent Reading Courses and Study Projects under General Curriculum Information.

51.452 Advanced Laboratory (c 01.00)

Lectures and laboratory experience. Students will plan and complete experiments in electronics and other laboratory techniques that fit background and previous training. Course may be retaken for credit. *Prerequisite:* permission of instructor.

51.490 Independent Study Project in Physics (c 00.25 through 02.00)

See Independent Reading Courses and Study Projects under General Curriculum Information.

Graduate Courses

All courses listed below carry graduate credit. .500 level courses are open to graduate and qualified undergraduate students. Undergraduate students in .500 level courses receive one course unit for 3 or 4 semester hour credits. Courses at the .600 and .700 levels are open to graduate students only.

51.500 Introduction to Mathematical Physics I (s 03.00)

Curvilinear coordinates and tensor analysis, matrix theory; complex functions, contour integrals,

and method of residues; method of Frobenius and special functions of mathematical physics. *Prerequisites:* 51.330, 51.350, 41.321.

51.501 Introduction to Mathematical Physics II (s 03.00)

Sturm-Liouville theory, the eigenfunction problem, Green's functions, partial differential equations of mathematical physics, Fourier series and transforms, integral equations, group theory. *Prerequisite:* 51.500.

51.530 Mechanics (s 03.00)

Newtonian dynamics; Hamilton's principle and Lagrange's equations; central force motion; rigid body dynamics; oscillating motion; Hamilton's equations and phase space; Hamilton-Jacobi equation. *Prerequisite:* 51.330.

51.531 Waves, Oscillations, and Acoustics (s 03.00)

Vibrating systems and dynamical analogies. Solutions of the wave equation in various coordinate systems. Radiation, reflection, refraction and diffraction of waves. Transients and random noise. *Prerequisites:* 51.330, 41.321.

51.551 Electromagnetism (s 03.00)

Maxwell's equations and electromagnetic waves, reflection and refraction, interaction of light with matter, interference phenomena, Huygens-Kirchoff diffraction theory. Fresnel and Fraunhofer diffraction, gratings, optical instruments. *Prerequisite:* 51.350.

51.554 Principles of Electronics (s 03.00)

Circuit analysis, circuit theorems, physics of vacuum tubes and transistors, equivalent circuits. Analysis of power supplies, amplifiers and oscillators. Modulation, demodulation and pulse circuits. *Prerequisite:* 51.350.

51.560 Basic Concepts in Thermal Physics (s 03.00)

Heat, temperature, the first and second laws of thermodynamics, reversibility, entropy changes, kinetic theory of gases, statistical interpretation of thermodynamics, Maxwell-Boltzman, Fermi-Dirac, and Bose-Einstein statistics. *Prerequisite:* 51.370.

51.570 Introduction to Quantum Mechanics (s 03.00)

Wave mechanics; the Schroedinger equation; potential barriers and potential wells; the harmonic oscillator; operators; eigenfunctions; eigenvalues; degeneracies; angular momentum; hydrogen atom. *Prerequisite:* 51.370.

51.572 Atomic Physics (s 03.00)

Review of elementary quantum mechanics, time independent and time dependent perturbation theory, magnetic moments, spin, identical particles, multi-electron atoms, transition rates and selection rules, and collision theory. *Prerequisite:* 51.570.

51.573 Nuclear Particle Physics (s 03.00)

Systematic presentation of physics of nuclei and the nucleon and their interactions at the undergraduate level. Topics to include the two-nucleon force, systematics of stable nuclei, radioactivity, and the fundamental interactions. *Prerequisite:* 51.570.

51.574 Introduction to Solid State Physics (s 03.00)

Crystallography, lattices, thermal properties of solids, free electron theory of metals, band theory of solids, conductivity of metals, insulators and semiconductors, dielectric and magnetic properties, superconductors. *Prerequisite:* 51.570.

51.590 Independent Reading Course in Physics (s 01.00 through 06.00)

See Independent Reading Courses and Study Projects under General Curriculum Information.

51.600 Current Topics I (s 01.00)

Selected lectures and activities introducing the graduate student to the departmental programs. Compulsory for all beginning graduate students. May be repeated for credit.

51.601 Current Topics II (s 01.00)

Guided readings in the student's area of concentration. Compulsory for all beginning graduate students. May be repeated for credit. *Prerequisite:* 51.600.

51.630 Theoretical Mechanics I (s 03.00)

Newtonian mechanics, rigid body dynamics, Lagrangian mechanics and tensor analysis, coupled oscillators and linear vector spaces, mechanics of continuous media. *Prerequisite:* 51.500 or concurrent registration.

51.631 Theoretical Mechanics II (s 03.00)

Elasticity, fluid mechanics and acoustics, relativistic mechanics, Hamiltonian mechanics and canonical transformations, Hamilton-Jacobi theory, Lagrangian and Hamiltonian densities. *Prerequisite:* 51.630.

51.650 Electromagnetic Theory I (s 03.00)

Electric and magnetic fields, boundary value problems, dielectric and magnetic media, Maxwell's equations, radiation and propagation of electromagnetic waves. *Prerequisite:* 51.501.

51.651 Electromagnetic Theory II (s 03.00)

Relativistic formulation of fields and potentials, Lienard-Wiechert potentials, dispersion, scattering, diffraction and physical optics. *Prerequisite:* 51.650.

51.660 Statistical and Thermal Physics I (s 03.00)

Review of principles and applications of thermodynamics. Principles of statistical mechanics, method of partition function and applications, method of probability distributions. *Prerequisites:* 51.560; 51.572 or concurrent registration.

51.661 Statistical and Thermal Physics II (s 03.00)

Ideal Bose and Fermi systems, applications to liquids and critical point phenomena, Ising and Heisenberg models for magnetism. Non-equilibrium thermodynamics, statistical mechanics, and fluctuations. *Prerequisite:* 51.660.

51.670 Quantum Mechanics I (s 03.00)

Experimental background to quantum mechanics, Schrodinger equation, eigenfunctions and eigenvalues, one-dimensional problems; WKB approximations; general principles of wave mechanics; central potentials, hydrogen atom, scattering. *Prerequisites:* 51.501; 51.572 or concurrent registration.

51.671 Quantum Mechanics II (s 03.00)

General formalism of quantum theory; angular momentum and spin; identical particles; stationary perturbations, time-dependent perturbation theory, variational method. *Prerequisite:* 51.670.

51.690 Independent Study Project in Physics (s 01.00 through 06.00)

See Independent Reading Courses and Study Projects under General Curriculum Information.

51.710 Solid State Physics I (s 03.00)

Lattice periodicity, Bloch's theorem, lattice vibrations, energy bands, Fermi statistics. Pauli paramagnetism, Hartree and Hartree-Fock equations, screening, plasma oscillations, dielectric function, impurity states. *Prerequisites:* 51.560, 51.573, 51.671.

51.711 Solid State Physics II (s 03.00)

Group theory, Boltzman equation, electrical conductivity, Hall effect, magneto-resistance, de Haas-van Alphen oscillations, magnetism, superconductivity. *Prerequisite:* 51.710.

51.712 Solid State Physics III (s 03.00)

Second quantization; magnetism; superconductivity; many-body methods; equations of motion, Green's functions, diagrammatic methods, Fermi liquids. *Prerequisite:* 51.711.

51.720 Advanced Quantum Mechanics I (s 03.00)

Lorentz group; Dirac and Klein-Gordon equation, Lorentz covariance; S-matrix, propagator theory, Feynman diagrams; applications; formal theory of scattering. *Prerequisite:* 51.671.

51.721 Advanced Quantum Mechanics II (s 03.00)

Lagrangian field theory; quantization of free fields, interactions; S-matrix theory, covariant

perturbation theory, applications to quantum electrodynamics and meson problems; dispersion relations; renormalization. *Prerequisite:* 51.720.

51.724 Nuclear Theory I (s 03.00)

Invariants, the deuteron, nucleon-nucleon problem, effective-range theory, nucleon-electron interaction, nucleon-nucleus interactions at low and high energies, and the electromagnetic interaction including isotopic spin. *Prerequisites:* 51.573, 51.671.

51.725 Nuclear Theory II (s 03.00)

Nuclear shell model, many body theory of nuclei with correlations, Hartree-Fock equation and quasi-particles, collective nuclear motion, nuclear reactions including U- and R-matrix methods and pion physics. *Prerequisite:* 51.724.

51.727 Fluctuations and Order Near Critical Points (s 03.00)

Onset of long range ordering and macroscopic fluctuations in fluids, magnets, superconductors, etc. General theory of equilibrium and transport properties near phase transitions. *Prerequisites:* 51.651, 51.661 or permission.

51.728 Modern Atomic Physics and Quantum Electronics (s 03.00)

Width and shape of spectral lines, electromagnetic interaction, Lamb shift, Einstein A and B coefficients. Multipole radiation, Born, Beta, and Ochkur approximations. Radiation trapping. *Prerequisites:* 51.573, 51.671.

51.731 Theoretical Acoustics (s 03.00)

Mathematical theory of waves and vibrations. Boundary value problems in radiation, diffraction and scattering, perturbation and variational methods. *Prerequisites:* 51.501, 51.631.

51.733 Relativity, The Special and General Theories (s 03.00)

Review of special relativity, mathematics of tensors, tensors in physics, the gravitational field equations, the Schwarzschild solution, experimental tests, recent developments. *Prerequisites:* 51.501, 51.631.

51.770 Elementary Particle Physics (s 03.00)

Mass spectra of the baryons, mesons and leptons; properties such as spin, isospin, parity, G-parity, strangeness, etc; strong, electromagnetic, and weak interactions; classification schemes; unitary symmetry. *Prerequisite:* 51.721.

51.771 High Energy Physics (s 03.00)

High energy elementary particle interactions, quantum field theory, symmetries, and S-matrix theory; strong interactions, pion-nucleon dispersion relations, partial wave amplitudes, electromagnetic form factors; weak interactions, beta decay, PCT, strange particle decays. *Prerequisite:* 51.721.

51.772 Special Topics in Nuclear and Particle Physics (s 01.00)

Nucleon and nuclear structure through electron scattering, meson exchange effects in few-nucleon systems, the eight-fold way, Regge poles, duality, quarks, and partons. *Prerequisite:* permission.

51.780 Research Seminar in Physics (s 03.00 through 06.00)

Various topics in advanced physics with contents selected according to need. May be repeated for credit. *Prerequisite:* permission.

51.795 Research Training Seminar (s 03.00 through 06.00)

May be repeated for credit. *Prerequisite:* 51.601.

51.797 Master's Thesis Seminar (s 03.00 through 06.00)

51.799 Doctoral Dissertation Seminar (s 03.00 through 06.00)

Psychology

Correspondence Directory: Elliot M. McGinnies, *Chairman*

Fields of Study

Experimental, emphasizing learning and conditioning; clinical, emphasizing behavior approaches, social, and developmental.

Full-time Faculty

Professor: John J. Boren, Charles B. Ferster, Allen M. Leventhal, Elliott M. McGinnies, Margaret J. Rioch, Stanley J. Weiss

Associate Professor: Alan J. Berman, James J. Gray, Barry M. McCarthy

Assistant Professor: Rodger Bufford, Stuart Culbertson, Robert E. Love, Alan Silberberg, Carol S. Weissbrod

Undergraduate Degree

Our philosophy in the Psychology Department is that the academic training should emphasize the fundamentals in the theory of behavior, particularly from a behavioral and experimental point of view. All of our experimental faculty are engaged in active laboratory research supported substantially by federal grants. Our clinical faculty are actively involved in field and clinical work.

In general we have two routes to a major in the Psychology Department. One route emphasizes behavioral psychology; the other is more traditional. There are enough courses for a student to take either route or a combination. Students will find much greater choice of courses by including a behavioral approach. Students are urged to sample from as many fields as possible.

Many of the Psychology Department courses are taught with an individualized method of instruction rather than by the traditional lecture/examination method. These are self-paced courses allowing the student to work at his own rate in conjunction with advanced students and faculty.

Bachelor of Arts

Formal admission to the major requires a 2.00 average and approval of the Department Chairman.

Composition and Reading Requirement—See Undergraduate Degree Requirements under General Academic Regulations.

Language Requirement—See Undergraduate Degree section under the College of Arts and Sciences.

Departmental Requirements

MAJOR COURSES

Psychology majors are required to satisfy the following requirements in order to be eligible for graduation:

- (a) Completion with a "C" or better of
 - (1) 57.200 Introductory Survey of Psychology
 - (2) 69.202 Basic Statistics (for psychology majors)
- (b) Completion with a "C" or better of a minimum of 6 additional courses from the offerings of the department. A student planning on pursuing graduate work should include in his undergraduate program:
 - 57.420 Behavior Principles
 - 57.480 Experimental Psychology
 - 57.518 Psychological Statistics

It is further recommended that the student sample from courses both in the experimental and applied areas. Consult a departmental advisor for guidance.

RELATED COURSES

Students are encouraged to take related courses in other departments. For students who are interested primarily in the area of experimental psychology these should be in biology, physics, mathematics, chemistry and philosophy (of science). For students interested primarily in the clinical area, these courses should be in anthropology, sociology and education.

Electives

To complete a minimum of 32 courses.

Graduate Degrees

Candidates for graduate degrees in all departments are subject to University Graduate Degree Requirements (see Graduate Degree Requirements under General Academic Regulations). Requirements given below list the minimal requirements from a departmental point of view. University requirements that exceed these requirements are nonetheless binding upon the student.

The goal of the graduate program in the Department of Psychology is to produce quality experimental, clinical and social psychologists for research, university teaching, and professional clinical service. All students receive a solid foundation in experimental science. Very few courses are specifically required, thus allowing the student to individualize his program. The faculty-student ratio is low, fostering extensive faculty-student interaction and frequent individually-directed research.

Master of Arts and

Doctor of Philosophy in Experimental and Social Psychology

Program Description

The primary concern of the experimental and social psychology program is to help the student develop his abilities to become a productive research scientist and teacher. Therefore, the essential character of this graduate program aims to stimulate creative research and its effective communication. This is achieved through on-going research activity the student can use as a model, and emphasis on the early acquisition of those research tools necessary for independent work, and close student-professor cooperation in the laboratory. The goals of the experimental program are coordinated in course content, research experience, and teaching practicums.

Admissions—See Graduate Admission under Admission Information.

The Master's and Doctoral programs are continuous and integrated with an emphasis on productive research. Completion of the Master's program at a level demonstrating doctoral potential will permit the student to continue toward that degree. Admission criteria are so devised as to make this progression likely. The student will be evaluated by the faculty and informed as to his progress at the end of each year of graduate study. Deadline for submission of all materials is February 15.

Degree Requirements

Courses

Students must complete twenty graduate courses (sixty credits). Master's thesis research and dissertation research account for the additional twelve credits (the total number of credits required is seventy-two). The experimental and social student must take Foundations of Experimental Research, Directed Research, two graduate statistics courses of his choice and two courses which are clearly outside the area of experimental and social psychology. With the aid of his advisor, each student will select his other courses, according to his individual interests.

Master's Thesis

The Master's Thesis is the student's opportunity to demonstrate competency in research as well as providing an important learning experience. Students must pass an oral examination concerning the content of the Master's Thesis.

See also the general requirements for all doctoral students as given in the Graduate Degree Requirements section under General Academic Regulations.

Master of Arts and

Doctor of Philosophy in Clinical Psychology

Program Description

Clinical Psychology students are prepared to assume a wide variety of roles (clinical research, clinical service, teaching) within the scientist-professional model. The importance of basic behavioral science and research methodology is stressed. The major theoretical orientation of the department is one which stresses an understanding of behavioral, psychoanalytic, and client-centered approaches to behavioral disorder and modification. Students are also provided with exposure to traditional diagnostic testing; six practica courses provide a variety of supervised experience in individual and group psychotherapy.

Admission—See Graduate Admission under Admission Information.

The Master's and Doctoral programs are continuous and integrated with an emphasis on research and psychotherapy. Completion of the Master's program at a level demonstrating doctoral potential will permit the student to continue toward that degree. Admission criteria are so devised as to make this progression likely. The student will be evaluated by the faculty and informed as to his progress at the end of each year of graduate study. Deadline for submission of all materials is February 15.

Degree Requirements

Courses

Students must complete eighteen graduate courses (fifty-four credits). Master's thesis research for six credit hours and doctoral dissertation research for twelve credit hours account for an additional eighteen hours, for the required total of seventy-two. A clinical student must take Experimental Foundations of Clinical Psychology, Practica I and II, two graduate statistics courses of his choice, and two courses which are clearly outside the area of clinical psychology. With the aid of his advisor, each student will select his other courses, according to his individual interests. For example, students may combine courses in their individualized programs to emphasize clinical research, behavior modification or traditional approaches to clinical practice.

Master's Thesis

The Master's Thesis is the student's opportunity to demonstrate competency in research as well as providing an important learning experience. Students must pass an oral examination concerning the content of the Master's Thesis.

Pre-Doctoral Internship

In his fourth year, the clinical student will serve an internship in an appropriate setting outside the University.

General Requirements for All Doctoral Students

Evaluation for Doctoral Candidacy

Before becoming a doctoral candidate, each student will be evaluated by the entire faculty with regard to the quality of the:

1. Master's thesis
2. Course performance (at least a B average must be maintained in all courses, with no more than one C)
3. Assistantship and/or practicum performance
4. Oral examination that would serve as a Master's thesis defense and as fulfilling in part the qualifications for the doctoral candidacy

The Tool Requirement

Two tools are required but do not result in course credit required for degrees. The tool requirement is quite flexible and can be met in a variety of ways.

1. Demonstration of a knowledge of Russian or German, either by passing an examination given by the Language Department or by taking and passing a course in one of these languages. Other languages may be used for this requirement by special arrangement.

2. One formal course in Computer Programming or demonstration of mastery of a programming language.

3. One graduate course (related to the student's individual program) offered by other departments at the American University or by non-psychology departments of the Consortium of Universities.

4. One clinical institute which is approximately equal in time and difficulty to a full course.

5. Supervised tool training in other settings when approved by advisor and chairman.

Specialty Examinations

Each student will be required to complete two specialty examination assignments outlined by his advisor or other faculty members. These assignments are practical exercises related to future professional activities.

Dissertation

A written proposal of the dissertation is to be submitted to the dissertation committee by the middle of the second semester of the third year. The original proposal, or a revision thereof, should meet the requirements of the committee by the end of the second semester. This allows adequate time for the completion of a quality dissertation even if initial experimentation turns out to be exploratory in nature. The committee is composed of four members, including the chairman. In the event that a dissertation is interdisciplinary in nature, one of the committee members should be a representative of the pertinent outside area. These four members also constitute the dissertation oral committee. This examination is open to all members of the department, as well as the University in general, and constitutes the final evaluation of the doctoral candidate.

Approval of the dissertation by the committee represents the successful completion of the doctoral program, since all other University and departmental requirements will have been satisfied by the time of the dissertation defense.

Students Entering with an M.A. in Psychology

Students who enter the program with an approved M.A. in Psychology will be required to complete twelve courses, two tools and two specialty examination assignments as well as the doctoral dissertation.

Courses of Instruction

Undergraduate level course values are expressed as *course units* according to the following decimal notations: (c 00.25) = $\frac{1}{4}$ course unit; (c 00.50) = $\frac{1}{2}$ course unit; (c 00.75) = $\frac{3}{4}$ course unit; (c 01.00) = 1 course unit; (c 01.50) = $1\frac{1}{2}$ course units; etc.

Graduate level course values are expressed as *semester credit hours* according to the following decimal notations: (s 01.00) = 1 semester hour; (s 02.00) = 2 semester hours; (s 03.00) = 3 semester hours; etc. There are no fractional semester credit hours.

Undergraduate Courses

57.200 Introductory Survey of Psychology (c 01.00)

Survey of various fields of psychology with emphasis on research discoveries. The teaching method, rather than relying upon lecturing, includes study discussion groups and frequent progress checks. *This course is a prerequisite to all other courses in the department.*

57.350 Developmental Psychology (c 01.00)

Introduction to development from infancy through adolescence. Self-paced, with emphasis on traditional and behavior theories and research in normal development: genetics, growth and maturation; sensation and perception; motivation; cognitive and social functioning.

57.390 Independent Reading Course in Psychology (c 00.25 through 02.00)

See Independent Reading Courses and Study Projects under General Curriculum Information.

57.410 Psychological Tests and Measures (c 01.00)

Theory of mental tests; validity, reliability and item analysis. Survey of representative tests of ability, personnel selection, aptitude, interests and personality. *Prerequisite:* Basic Statistics.

57.420 Behavior Principles (c 01.00)

Introduction to the scientific study of the behavior of organisms. The course emphasizes the general principles of the experimental analysis of behavior such as reinforcement, punishment, stimulus control, and verbal behavior. The course is designed in such a manner as to facilitate dialogue between student and student as well as student and teacher concerning both the learning of these principles and their applications to human behavior. Such issues as behavior modification, emotional illness, punishment and law, social behavior, as well as the social-philosophical issues surrounding the use of behavioral control are considered.

57.430 Theories of Personality (c 01.00)

Survey & critical evaluation of major personality theories supplemented by exercises and demonstrations.

57.440 Social Psychology (c 01.00)

Individual behavior as influenced by and demonstrated in group settings; evaluation of contemporary research and theoretical developments. *Prerequisite:* one introductory course.

57.450 Abnormal Psychology (c 01.00)

Study of behavioral deviations.

57.460 Child Rearing Practices and the Training of Parents (c 01.00)

The course will consider and combine several approaches to the rearing of normal children. In addition, methods of treating disruptive, retarded, and institutionalized children will be covered. Students carry out a project during the term. *Prerequisites:* two courses in psychology, one of which should be 57.350 or the equivalent.

57.480 Experimental Psychology (c 01.00)

Data and research methods in core areas of psychology. Review of experimental design. Individual and group experiments. *Prerequisite:* Basic Statistics.

57.490 Independent Study Project in Psychology (c 00.25 through 02.00)

See Independent Reading Courses and Study Projects under General Curriculum Information.

57.497 Advanced Topics in Psychology (c 01.00)

Individual sections cover specific advanced topics in psychology. The topics offered vary from semester to semester. Each section is an intensive course in a specialized area of psychology. Enrollment in each section is limited. *Prerequisites:* junior/senior standing, three psychology courses, permission of the instructor.

75.317 Para-Professional Services: Training and Application (c 01.00)

This course offers instruction and service in peer counseling and related research activities and will include training in basic communication and counseling skills, followed by additional intensive training in one speciality area: Hotline, Companion Program, Pre-Withdrawal and Human Ecology Program, Peer Student Program, and Learning to Learn Program. The program is open to students who are willing to be responsible for work on a particular campus service throughout the semester. Opportunities exist in research and evaluations of campus systems which cause students problems as well as in counseling of students. This course is part of the P.E.A.C.E. program (Peer-Environmental Analysts, Counselors and Educators).

Graduate Courses

All courses listed below carry graduate credit. .500 level courses are open to graduate and qualified undergraduate students. Undergraduate students in .500 level courses receive one course unit for 3 or 4 semester hour credits. Courses at the .600 and .700 levels are open to graduate students only.

57.501 Physiological Psychology (s 03.00)

Anatomical and physiological substrata of behavior. *Prerequisite:* junior standing, two departmental courses and permission of instructor.

57.502 History and Systems of Psychology (s 03.00)

Philosophical and scientific background of modern psychology and contemporary problems of theory construction. *Prerequisite:* one introductory course and senior standing.

57.503 Sensation and Perception (s 03.00)

Sensory and complex perceptual processes discussed in the light of contemporary theories in research. Knowledge of basic statistics is desirable. *Prerequisites:* two departmental courses.

57.504 Group Process (s 03.00)

Concepts and theories about groups considered in relation to actual groups and organizations with which students are involved. *Prerequisite:* junior standing and permission of the instructor.

Two weekend group relations conferences may be offered to supplement the work of 57.504. Students may obtain additional credit for these by registering for 57.590, Independent Reading Course in Psychology. All students applying for the conferences must fill in application blanks to be obtained in the Psychology Department along with detailed description of the conferences and work required for the additional credit.

57.505 Teaching Seminar (s 03.00)

Applications of behavior principles to teaching. Experiential non-directively led seminar. Course combines the study of group process, principles of learning and general topics in education.

57.506 Human Sexual Behavior (s 03.00)

Course provides an overview of various aspects of human sexual behavior including basic physiological knowledge, sex education, sexual myths, premarital and marital sexual behavior, homosexuality, pornography etc. Emphasis will be on psychological aspects of sex and sexuality. *Prerequisite:* one introductory course.

57.507 Behavior Crisis Intervention: Theory and Technique (s 03.00)

Technique and methods of emergency intervention for acute behavioral disturbances (e.g., drug reactions, depression, suicide). This course includes practicum experience for which screening and training are required. The theme topic of the course changes each semester so it can be taken for academic credit more than once.

57.508 Field Observation and Analysis of the Behavior of the Mentally III (s 03.00)

Weekly period of observation and participation, under supervision, followed by seminar discussion of observations and experience. *Prerequisite:* 57.420.

57.509 Ethics and Professional Practices (s 03.00)

Deals with theoretical and conceptual questions as well as social problems in area of ethics and professional practice. Specifically, ethical standards, codes and legislation of psychologists and related professions and ethical problems of community mental health are examined.

57.510 Learning Principles and Human Application (s 03.00)

Laboratory study of certain behavioral procedures and application of these procedures to education, psychotherapy and other problems in human affairs. *Prerequisites:* two courses in psychology.

57.511 Advanced Developmental Psychology (s 03.00)

Contemporary view of modern concepts, theories and research of human development. *Prerequisite:* 57.350 or permission of instructor.

57.512 Human Learning—Verbal Behavior (s 03.00)

Principles of learning applied to verbal behavior including consciousness, thinking, self-perception and use of behavioral framework for understanding linguistic approaches to language. *Prerequisite:* 57.420.

57.513 Psychopharmacology: The Effects of Drugs upon Behavior (s 03.00)

Basic principles of pharmacology, drug-behavior interactions, and the effects of prominent "psychotropic" drugs. While clinical findings will be considered, the emphasis will be on laboratory studies of the various drugs. *Prerequisites:* two courses in psychology, one of which should be 57.420 or 57.510 or the equivalent course in laboratory studies of behavior.

57.540 Quantitative Models of Behavior (s 03.00)

Review of efforts to bring mathematical methods to bear on psychological problems from 19th century to present. *Prerequisites:* 57.200 and Basic Statistics.

57.561 Personality Testing (s 03.00)

Study of representative personality tests and projective techniques: Laboratory practice in the administration, scoring and interpretation of these tests. *Prerequisite:* Graduate or senior standing and permission of instructor.

57.580 Student Culture, Community Consultation, Contemporary Issues (s 03.00)

Supervised research and program study of the student culture and the University from a community psychology framework. In-depth examination of selected topics related to student development, conflicts, roles, values, attitudes, etc. Experience in models of mental health and program consultation.

57.590 Independent Reading Course in Psychology (s 01.00 through 06.00)

See Independent Reading Courses and Study Projects under General Curriculum Information.

57.600 Foundations of Experimental Research (s 03.00)

Experimental psychology emphasizing the fundamentals of experimental design; students carry out experiments during the term. *Prerequisite:* graduate standing in the Psychology Department.

57.601 Experimental Foundations of Clinical Psychology (s 03.00)

General introduction to clinical psychology emphasizing its scientific roots and methods of clinical research. *Prerequisite:* graduate standing.

57.610 Theory of and Instrumentation in the Behavioral Sciences (s 03.00)

Practical experience in the design and construction of electro-mechanical and electronic laboratory equipment. Limited to Psychology Department graduate students.

57.620 Conditioning and Learning (s 03.00)

Advanced analysis of operations and principles developed through the systematic study of classical and operant conditioning. This is a seminar for advanced graduate students in psychology and will take up selected topics primarily within the area of operant conditioning. *Prerequisites:* 57.600 and graduate standing in the department.

57.630 Systems of Psychotherapy (s 03.00)

Review of major psychotherapeutic schools through films, tapes, role playing, demonstrations, and discussion. *Prerequisite:* permission of the instructor.

57.650 Assessment of Intellectual Functions (s 03.00)

Examination of representative individual tests and their theoretical bases and laboratory practice in administration, scoring, and interpretation of these tests. *Prerequisite:* permission of instructor.

57.670 Advanced Social Psychology (s 03.00)

Psychological factors in human social behavior. An examination of the research literature with emphasis on design and methodology. Consideration is given to theoretical problems in social behavior as well as to current trends in experimentation. *Prerequisite:* permission of instructor.

57.690 Independent Study Project in Psychology (s 01.00 through 06.00)

See Independent Reading Courses and Study Projects under General Curriculum Information.

57.691 Practicum Training I (s 03.00)

Practice in skills related to counseling-psychotherapy by systematic exposure to critical elements in interview situation through supervision and guided observational experience. *Prerequisite:* permission of instructor.

57.692 Practicum Training II (s 03.00)

Continuation of Practicum Training I.

57.693 Practicum Training III (s 03.00)

Supervision in individual and group psychotherapy from a psychodynamic point of view. *Prerequisite:* permission of the instructor.

57.694 Practicum Training IV (s 03.00)

Continuation of Practicum III.

57.698 Directed Research (s 03.00 through 06.00)

Consult Psychology Department.

57.796 Master's Thesis Independent Study (s 03.00)

Prerequisite: Open to graduate students whose thesis proposal has been approved by the Department.

57.798 Doctoral Dissertation Independent Study (s 03.00)

Prerequisite: Open to graduate students whose dissertation proposal has been approved by the Department.

75.617 Para-Professional Services: Training and Application (s 03.00)

This course offers instruction and service in peer counseling and related research activities and will include training in basic communication and counseling skills, followed by additional intensive training in one speciality area: Hotline, Companion Program, Pre-Withdrawal and Human Ecology Program, Peer Student Program, and Learning to Learn Program. The program is open to students who are willing to be responsible for work on a particular campus service through the semester. Opportunities exist in research and evaluation of campus systems which cause students problems as well as in counseling of students. This course is part of the P.E.A.C.E. program (Peer-Environmental Analysts, Counselor and Educators).

Sociology

Correspondence Directory: Muriel G. Cantor, *Chairman*

Fields of Study

Theory, methods, complex organizations, social stratification, social change, political sociology, public opinion and mass communications, sociology of occupations and professions, sociology of religion, social psychology: sociological, and social program design and evaluation.

Full-time Faculty

Professor: Annabelle B. Motz, John Carver Scott, Jr.

Associate Professor: Muriel G. Cantor, Gert Müller, Karen K. Petersen

Assistant Professor: Esther Chow, Samih Farsoun, Barbara H. Kaplan, Alan J. Lincoln, Florence Rosenberg, Harold Yahr

Undergraduate Degree

Bachelor of Arts and Bachelor of Science**Admission to the Major**

The student who maintains a 2.00 grade point average (on a four point system) may be admitted in the sophomore year after consultation with a department advisor. Students transferring to The American University after the sophomore year are encouraged to declare their major as soon as possible.

Composition and Reading Requirement—See Undergraduate Degree Requirements under General Academic Regulations.

Language Requirement—See Undergraduate Degree section under the College of Arts and Sciences.

Departmental Requirements**MAJOR COURSES**

- 65.200 Introduction to Sociology
- 65.410 Classical Sociological Theory
- 65.411 Contemporary Sociological Theory
- 65.420-.421 Introduction to Social Research I and II
- 3 additional courses at the .300 level or above

RELATED COURSES

69.202 Basic Statistics (recommended)

Students will be counseled to take additional work in psychology, anthropology, economics, political science, history, philosophy, and statistics.

Electives

To complete a minimum of 32 courses.

Department Honors

Consult the department for details.

Bachelor of Science

To be awarded a Bachelor of Science degree, students must select more than fifty percent of their courses from Sociology, or more than seventy-five percent of their courses from Sociology and related fields (psychology, anthropology, economics, political science, history, philosophy and statistics).

Bachelor of Arts

To be awarded a Bachelor of Arts degree, students must have at least twenty-five percent of the courses in areas other than sociology and related fields and cannot accrue more than 16 sociology courses.

Undergraduate Major: Mass Media and Society

The Departments of Sociology and Communication are developing an undergraduate interdisciplinary major which will integrate the techniques of journalism and other media with sociological methods in reporting and investigating social dynamics and change. Students who wish further details should write to Dr. Robert Blanchard, Department of Communication.

Graduate Degrees

Candidates for graduate degrees in all departments are subject to University Graduate Degree Requirements (see Graduate Degree Requirements under General Academic Regulations). Requirements given below list the minimal requirements from a departmental point of view. University requirements that exceed these requirements are nonetheless binding upon the student.

Three letters of recommendation (on forms supplied by the Office of Graduate Admissions) must be included with the application for admission to the department's graduate degree programs. Students who have completed or are currently enrolled in a degree program (B.A. or M.A.) in the department should secure these recommendations from departmental faculty members. Non-degree students taking courses in the department should secure at least two of the three recommendations from departmental faculty members. Departmental deadlines for graduate admission applications may differ from current University deadlines. For details, consult the department.

Master of Arts

Admission to the M.A. Program

The following persons may be considered for admission to the M.A. program of the Department of Sociology:

1. Persons who (a) meet general University requirements for admission to graduate study (see Graduate Admission under Admission Information), (b) maintained a 3.0 grade point average, based on a 4 point system, in their undergraduate major, and (c) have completed at least 12 hours of approved sociology courses with a grade of B or better.

2. Persons who (a) meet general University requirements (b) maintained a 3.0 grade point average, based on a 4 point system, in their undergraduate major, but (c) have not completed the first 12 hours with a grade of B or better of approved sociology courses may be admitted provisionally subject to completing 12 hours of sociology at the graduate level with a grade point average of better than B.

3. In special cases, persons who do not meet the above requirements and persons who do not have the required background in sociology will be considered for admission only on

the understanding that more than 30 hours of approved graduate level work in sociology and related fields may be required to attain the M.A. degree.

M.A. Degree Requirements

The degree of Master of Arts in Sociology is awarded upon satisfaction of the following requirements:

***Course Work**

Attainment of a grade point average of better than B in thirty hours of approved graduate level course work in sociology and related fields (such as anthropology, economics, history, psychology, political science, etc.), including a research requirement of six credit hours. Twenty-four of these, including the research requirement, must be taken in residence at The American University. Six semester hours may, at the discretion of the department, be transferred from another accredited graduate school. Such transfer credit must be of "B" quality or better and appropriate to the degree program to which it is applied.

* Upon approval, a portion of the residence requirement may be satisfied in courses offered by the Consortium of Universities of the Washington Metropolitan Area, Inc.

Programs of Study

For the regular M.A. program, a minimum of 6 semester hours of thesis research is required. No other specific courses are required. However, the following program is recommended: 65.510 Concepts of Sociology, 65.611 Issues in Modern Sociological Theory, 65.612-613 Social Research Methods I and II. A minimum of 6 hours in a substantive field of interest to the student selected in consultation with his advisor, plus additional courses relevant to the candidate's career goals are suggested.

Tools of Research

This requirement may be satisfied by (1) satisfactory performance on a statistics tool examination designated by the Department of Sociology, or (2) passing a graduate level statistics course (3 hours) approved by the department. If the student elects to take the statistics course, the three hours could contribute toward satisfaction of the thirty-hour course work requirement. Students interested in this option should consult the departmental office for details.

Comprehensive Examinations

Satisfactory performance on two written comprehensive examinations, one in sociological theory and one in methods of social research, within one year after completion of residence requirements. These examinations may, but need not, be taken in the same examination period. In special circumstances, the student may petition the chairman of the department to substitute another area of study for one of these examination areas.

It is strongly recommended that, in preparation for comprehensive examinations, the candidate develop detailed bibliographies for each examination field and discuss these bibliographies with faculty members responsible for examinations in each field one semester prior to the examinations.

Thesis

For the Master of Arts in Sociology candidates must write a thesis. All thesis proposals must be submitted to a committee of two members of the Sociology Department faculty chosen by the degree candidate in consultation with his faculty advisor. Proposals are prepared and processed in accordance with instructions obtainable in the department office. Final departmental approval of all proposals is with the department chairman unless the chairman is a member of the candidate's M.A. thesis committee; in that case the chairman of the Graduate Advising Committee will have final departmental approval.

After the M.A. thesis manuscript is completed, a date will be set for the final oral examination. Three copies of the manuscript must be in the hands of the chairman of the department at least two weeks before the examination. In the oral examination, the student may be questioned over the general field of his research. The thesis is not accepted by the department until (a) the student has passed the oral examination and (b) the thesis has been read and approved by the department chairman. If the chairman is a member of the candidate's committee, the chairman of the Graduate Advising Committee will have final departmental approval. Further details concerning the department recommendations for the M.A. thesis are available in the department office.

In order to obtain the required six hours of research credit toward the degree, the candidate must pass (a) 65.797, M.A. Thesis Seminar (six hours) or (b) 65.797, Thesis Seminar (three hours), followed by 65.796, M.A. Thesis: Independent Study (three hours). Note: Students may not register for 65.797, M.A. Thesis Seminar, until they have completed 12 hours of graduate sociology with a grade of B or better.

M.A. Timetable

Ordinarily the M.A. degree has been obtained after two years of graduate study, but students with exceptional backgrounds may qualify in a shorter period. All work for the Master's degree must be completed within three years from the date of the first registration in the graduate degree program. A student who has not completed requirements in this time must petition for re-admission if he wishes to continue and may be subject to the degree regulations in effect at the time of re-admission.

Doctor of Philosophy

Admission to the Ph.D. Program

Consideration for direct admission to the doctoral program of the Department of Sociology is open only to persons who meet general University requirements for admission to graduate studies (see Graduate Admission under Admission Information) and who have completed 12 or more hours of approved graduate level course work in sociology with a grade point average of better than B.

Attainment of Doctoral Standing

To attain doctoral standing students admitted to the doctoral program must first complete 30 hours of approved graduate level work in sociology and related fields with an average of better than B.

Advancement to Candidacy

Advancement to candidacy is required prior to taking comprehensive examinations for the Ph.D. degree. Advancement to candidacy involves three steps:

1. Attainment of doctoral standing.
2. Passing a qualifying examination in sociological theory and methods of social research. This examination must be taken before or during the second semester of course work in the doctoral program at The American University. The qualifying examination will be administered twice yearly, once in the fall and once in the spring, at a time designated by the department. If a student does not pass the qualifying examination, he may be permitted one retake. Such retake must be completed during the next examination period. This requirement shall be waived for students who have received the M.A. degree from this department within three years prior to their admission to the doctoral program.
3. Recommendation for advancement to candidacy from the department's Graduate Advising Committee. The committee's recommendation will be based on a thorough review of the student's record. Before applying for this review, the student must complete the first two steps toward advancement to candidacy. Applications must be submitted between the 18th and 27th hours of graduate work completed after the student has attained doctoral standing. For details, consult the departmental office.

Degree Requirements

***Course Work**

Attainment of a grade point average of better than B in 60 hours of approved graduate level course work in sociology and related fields and satisfactory completion of 12 hours of directed study on the dissertation (65.798 and 65.799) are required. A minimum of 30 hours of approved course work and 12 hours of directed study on the dissertation must be completed in residence after the student has attained doctoral standing in the department.

* Upon approval, a portion of the residence requirement may be satisfied in courses offered by the Consortium of Universities of the Washington Metropolitan Area, Inc.

Recommended Program of Study

Twelve hours of directed study on the dissertation, including a minimum of 3 but no more than 6 hours of 65.799, are required. No other specific courses are required. It is, however,

recommended that the candidate take twelve hours of course work related to each of his four comprehensive fields. In this regard, the student is urged to consult with his graduate advisor.

Tools of Research

Before submitting a proposal for a dissertation, the candidate must demonstrate proficiency in:

- (1) A modern language, customarily French or German, and
- (2) Statistics for social research.

Satisfaction of the language tool requires passing a language examination designed to test the candidate's reading knowledge of the language. Credit hours in language courses taken to achieve the level of proficiency required to meet the tools requirement in language may not be counted toward satisfaction of the 60 hours of graduate course work. However, credit received in other graduate level language courses may contribute to this requirement if the course is approved by the department as relevant to the candidate's doctoral program.

The statistics tool may be satisfied through a proficiency examination designated by the department or by completing satisfactorily six hours of graduate work in statistics approved by the department. If the student elects to take the statistics courses, the six hours may, contingent on departmental approval, contribute toward satisfaction of the 60 hours of graduate course work requirement.

Comprehensive Examinations

Satisfactory performance on four comprehensive examinations, one in sociological theory, one in methods of social research, and two in elective fields, selected in consultation with the student's graduate advisor and approved by the department is required.* At least two must be taken within one year after completion of residence requirements and all four must be taken within two calendar years after completion of residence requirements. In accordance with these regulations, students may, but need not, take more than one comprehensive examination during the same examination period. At least one of the four comprehensives must be an oral examination.

The comprehensive examination is designed to test the broad general knowledge of the candidate and his ability to discuss intelligently and professionally basic issues in the field. This obviously cannot be gained from taking course work alone, but must come out of a background of wide reading of the literature and creative thinking and research in the field. It is strongly recommended that, in preparation for comprehensive examinations, the candidate develop detailed bibliographies for each examination field and discuss these bibliographies with faculty members responsible for the examination in each field at least one semester prior to the examination date.

* Candidates who receive distinction from two of three readers on American University M.A. comprehensive examinations may be excused from the applicable Ph.D. comprehensive examination, providing the examination was taken within three years of the Ph.D. comprehensive examination date.

Graduate Comprehensive Fields

Core Fields

- Sociological Theory
- Methods of Social Research

Specialized Fields

- Complex Organizations
- Social Stratification
- Political Sociology
- Social Psychology: Sociological
- Sociology of Occupations and Professions

Subject to departmental approval, the candidate may offer as one of his two elective fields a special area not in the above listing. This approval will depend in large part on the adequacy of current faculty capability for direction of study and research in the field.

Dissertation

Capping the requirements for achieving the Doctor of Philosophy in Sociology is the dissertation, together with the required oral examination of the dissertation in which the candidate may be questioned over the general field of his research. Normally, the candidate

must have completed all academic requirements for the degree before the oral examination is held.

All dissertation proposals must be submitted to a committee of four members (at least three of whom must be departmental members) chosen by the degree candidate in consultation with his faculty advisor. No person without the doctorate can serve on this committee. Proposals are prepared and processed in accordance with instructions obtainable in the department office.

After the dissertation manuscript has been accepted by the department, a date will be set for the final oral examination. Five copies of the manuscript must be in the hands of the chairman of the department for distribution to committee members at least three weeks before the examination.

The ABD Status

Candidates for the doctorate in sociology who have completed all requirements for that degree except the dissertation (the so-called "All-But-Dissertation" status) and who entered the doctoral program without a Master's degree in sociology may be awarded the Master of Arts in Sociology.

Ph.D. Timetable

Ordinarily the Ph.D. degree has been obtained after four to five years of full-time graduate study, but students with exceptional backgrounds may qualify in a shorter period. All work for the doctorate must be completed within five years from the date of the first registration as a doctoral student. However, the student is permitted seven years if he enters a doctoral program directly from a Bachelor's degree. A student who has not completed requirements in the time limits specified must petition for re-admission if he wishes to continue and may be subject to the degree regulations in effect at the time of re-admission.

Courses of Instruction

Undergraduate level course values are expressed as *course units* according to the following decimal notations: (c 00.25) = $\frac{1}{4}$ course unit; (c 00.50) = $\frac{1}{2}$ course unit; (c 00.75) = $\frac{3}{4}$ course unit; (c 01.00) = 1 course unit; (c 01.50) = $1\frac{1}{2}$ course units; etc.

Graduate level course values are expressed as *semester credit hours* according to the following decimal notations: (s 01.00) = 1 semester hour; (s 02.00) = 2 semester hours; (s 03.00) = 3 semester hours; etc. There are no fractional semester credit hours.

GENERAL

Undergraduate Courses

65.200 Introduction to Sociology (c 01.00)

65.200 is a general prerequisite to all .300- and .400-level sociology courses. Fundamental characteristics of social relationships. Culture, personality, population and ecology, social institutions and processes, cultural change. Honors selection permitted.

65.221 Marriage and Family Living (c 01.00)

Recent changes in American family; modern dating, mate-selection, engagement, early marital adjustment, communication, money, working wife, sex, and in-law problems. Not open to first semester freshmen.

65.340 The Family (c 01.00)

Varying forms and functions of family organization in different societies. Evolution of American family patterns. Family relations and personality formation. Contemporary social changes influencing family life.

65.345 American Society (c 01.00)

Analysis of contemporary American social institutions. American social system in historical perspective, value systems, ethnic composition, formal and informal structures.

65.346 Comparative Social Systems (c 01.00)

Comparative analysis of contemporary societies, social institutions, value systems, formal and informal organizations, integration and cohesiveness, relationships with other societies.

65.347 Race Relations (c 01.00)

Sociological examination of relationship between and within racial groups; analysis of social causes of prejudice and discrimination.

65.348 The Position of Women in the Social Order (c 01.00)

Location and description of women in population. Nature and extent of prejudice and discrimination against women. Impact and significance of female equality upon the social order.

65.350-.351 Sociology of the Afro-American (c 01.00) (c 01.00)

Examinations of racism in Europe. Process of Afro-American's assimilation into U.S. culture. Negro institutions, business, leadership, education, literature, music. Migration, poverty, discrimination. Demand for equality. 65.350 is prerequisite to 65.351.

65.352 Human Ecology (c 01.00)

Relation of environment to distribution of population and to social structure and culture.

65.360 Introduction to Social Change (c 01.00)

Analysis of the causes, processes and consequences of social change. Critical examination of theories of social change in the context of comprehensive analysis.

65.361 Deviance and Social Control (c 01.00)

Analysis of social problems created by technical and cultural change. Theories of deviance systematically analyzed in relationship to societal control.

65.365 Introduction to Social Work (c 01.00)

Development of social welfare philosophy and practices. Areas of social work, group work, and community organization for public welfare. Community resources. Visits to selected agencies.

65.391 Social Interaction (c 01.00)

Sociological perspective of the interrelationship between individual and group. Socialization roles in small and complex organizations, mass communication and social movements.

65.415 Law and the Social Order (c 01.00)

Functions of law in society; social origins and development of political authority around human rights. Changing role of law in modern democratic state.

65.416 Introduction to Criminology (c 01.00)

Nature, extent and social cause of delinquency and crime. Criminal law, police and the administration of justice. Treatment of offender.

65.441 Introduction to Social Stratification (c 01.00)

Major theories and related empirical studies of stratification; sources and consequences of mobility; and relationship of stratification to life-style, political power and personality.

65.442 Political Sociology (c 01.00)

Systematic analyses of contributions of classical sociological writers to theory and research in politics. Methods and techniques useful in examining political behavior and institutions.

65.445 Contemporary Communities (c 01.00)

Analysis and comparison of social and political structures and ideologies of contemporary communities of the world, stressing American community types. Approaches to community research.

65.450 Population (c 01.00)

Survey of world population trends. Introduction to methods of analysis. Determinants and consequences of variations in fertility, mortality, and migration.

Graduate Courses

All courses listed below carry graduate credit. .500 level courses are open to graduate and qualified undergraduate students. Undergraduate students in .500 level courses receive one

course unit for 3 or 4 semester hour credits. Courses at the .600 and .700 levels are open to graduate students only.

65.540 Social Institutions (s 03.00)

Social structure emphasizing the nature, functioning, integration of social institutions.

65.545 Sociology of the Family (s 03.00)

Analysis of current thinking and research in sociology of family. Focus on intra- and inter-societal variations in family and kinship patterns.

65.560 Social Conflict (s 03.00)

Sociological analysis of history, typology, structure, function and nature of social conflict.

65.580 Sociology of Religion (s 03.00)

Concepts, methods and techniques in sociological analysis of religion. Historical comparative and functional approaches to religion. Emphasis on European and American Christianity.

65.592 Social Aspects of Mass Communication (s 03.00)

Communication of ideas in modern society. Special attention to current empirical research on mass media in relation to sociological theory.

65.593 Collective Behavior (s 03.00)

Analysis of crowd, mass, public behavior. Relationship to social movements of modern times. Role of leadership in various types of collective behavior. Factors, processes in emergence of social order.

65.594 Public Opinion (s 03.00)

Introduction to sociological, psychological and political theories and methods of public opinion research. Nature of public opinion information, distribution, and influence on society.

65.615 Sociology of Law (s 03.00)

Functions of law in society; social origins and development of political authority around human rights. Changing role of law in the modern democratic state.

65.665 Studies in the Analysis of Social Change (s 03.00)

Systematic analysis of processes of social change; its sources, patterns, and consequences. Sociological theories and methods of inquiry into phenomena of social change.

SOCIOLOGICAL THEORY

Undergraduate Courses

65.410 Classical Sociological Theory (c 01.00)

Historical background of theories, concepts, and methods of sociology; emergence and characteristics of the most significant sociological systems.

65.411 Contemporary Sociological Theory (c 01.00)

Systematic analysis of modern sociological theories and schools of thought. Logic and procedures of theory construction. *Prerequisite:* 65.410.

Graduate Courses

65.510 Concepts of Sociology (s 03.00)

Systematic survey, critical analysis of sociological concepts. Emphasis on theoretical systems.

65.610 History of Sociological Theory (s 03.00)

Comparative study of major European and American schools of sociological theory in nineteenth and early twentieth centuries.

65.611 Issues in Modern Sociological Theory (s 03.00)

Systematic analysis of modern sociological theories and major schools of social thought. International review of periodical literature on sociological theory.

65.711 Seminar in Sociological Theory (s 03.00)

Intensive study of selected area or school of sociological thought. Emphasis on research in source materials. May be repeated for credit. *Prerequisite:* permission of instructor.

RESEARCH METHODS**Undergraduate Courses****65.420 Introduction to Social Research Methods I (c 01.00)**

Introduction to nature, methods, principles, and techniques of scientific social research. Critical review of types of investigations, with accent on field research.

65.421 Introduction to Social Research Methods II (c 01.00)

Continuation of Introduction to Social Research I. *Prerequisite:* 65.420.

Graduate Courses

All courses listed below carry graduate credit. .500 level courses are open to graduate and qualified undergraduate students. Undergraduate students in .500 level courses receive one course unit for 3 or 4 semester hour credits. Courses at the .600 and .700 levels are open to graduate students only.

65.514 Historical Sociology (s 03.00)

Employment of sociological concepts in the study of historical processes. Principles and techniques for the analysis of documents and their relation to sociological research.

65.612 Social Research Methods I (s 03.00)

Research procedures in sociology with emphasis on survey design, collection of quantitative data. *Prerequisite:* 69.202.

65.613 Social Research Methods II (s 03.00)

Research procedures in sociology with emphasis on analysis of quantitative data. *Prerequisite:* 65.612.

65.614 Methodology (s 03.00)

Critical analysis of logical and methodological problems of social investigation. Theoretical orientation of logically distinct approaches to sociological research.

65.712 Seminar in Social Research (s 03.00)

Investigation of recently developed techniques in various areas of social sciences and their application to sociology. May be repeated for credit. *Prerequisite:* permission of instructor.

SOCIAL PSYCHOLOGY: SOCIOLOGICAL**Graduate Courses****65.570 Social Psychology of Intergroup Tensions (s 03.00)**

Intergroup prejudice and its relation to other aspects of personality and social behavior. Recent research on the determinants of intergroup attitudes. Techniques for the reduction of intergroup tension.

65.591 Introduction to Social Psychology (s 03.00)

Survey of sociological perspective of study of interrelationship of person to group: concepts, theories, and methods. Consideration of socialization, attitudes and values, collective behavior and intergroup relations.

65.692 Theories of Social Psychology (s 03.00)

Analysis and criticism of selected theories dealing with the nature of human nature, personality, group influences and interaction. Consideration of symbolic interaction, role theory, Freudian theories, etc.

65.716 Seminar in Social Psychology (s 03.00)

Consideration of sociological aspects of recent theoretical and methodological advances in the field and preparation of related research reports. May be repeated for credit. *Prerequisite:* permission of the instructor.

OTHER SPECIAL FIELD COURSES**Graduate Courses****65.544 The Sociology of Occupations (s 03.00)**

Sociology of work relationships; using occupation as unit of analysis. Emphasis on process of professionalization, and on professional roles in complex organization.

65.640 Complex Organizations (s 03.00)

Structure and functions of formal organizations. Critical review of empirical research.

65.641 Studies in Social Stratification and Mobility (s 03.00)

Class, status and power relations in society. Caste, estate, social class, social mobility. Theories and empirical research findings of current importance.

65.642 Sociology of Political Action (s 03.00)

Systematic analyses of contributions of classical sociological writers to theory and research in politics. Methods and techniques useful in examining political behavior and institutions.

65.714 Seminar in Social Organization (s 03.00)

Consideration of theoretical and methodological problems in field and preparation of related research reports. May be repeated for credit. *Prerequisite:* permission of instructor.

INDEPENDENT STUDY, RESEARCH AND PRACTICUM**Undergraduate Courses****65.390 Independent Reading Course in Sociology (c 00.25 through 02.00)**

See Independent Reading Courses and Study Projects under General Curriculum Information.

65.490 Independent Study Project in Sociology (c 00.25 through 02.00)

See Independent Reading Courses and Study Projects under General Curriculum Information.

Graduate Courses**65.590 Independent Reading Course in Sociology (s 01.00 through 06.00)**

See Independent Reading Courses and Study Projects under General Curriculum Information.

65.690 Independent Study Project in Sociology (s 01.00 through 06.00)

See Independent Reading Courses and Study Projects under General Curriculum Information.

65.796 Master's Thesis Independent Study (s 03.00)

Directed individual thesis research carried on under supervision of the student's thesis or dissertation committee chairman. *Prerequisite:* open to graduate students whose thesis proposal has been approved by department.

65.797 Master's Thesis Seminar (s 03.00)

Intended primarily for students engaged in clarification of their research objectives and the development of suitable research proposal for an M.A. thesis.

65.798 Doctoral Dissertation: Independent Study (s 03.00)

Directed individual dissertation research carried on under the supervision of the student's thesis or dissertation committee chairman. *Prerequisite:* open to graduate students whose dissertation proposal has been approved by the department.

65.799 Doctoral Dissertation Seminar (s 03.00)

Intended primarily for students engaged in clarification of their research objectives and the development of suitable research proposals for a dissertation.

The American University

Wolf Trap Academy for the Performing Arts

Correspondence Directory: *Director*

In this summer program high quality professional training is offered in dance, music, and theatre. Students are involved in both course work and performance, and work with major visiting artists in their performance areas. The Wolf Trap Academy is an activity of The American University and is conducted with the cooperation of the Wolf Trap Foundation and the National Park Service, U.S. Department of the Interior. Students have opportunities to perform on the Filene Center stage and receive tickets to events at Wolf Trap Farm Park for the Performing Arts. All courses and rehearsals take place on The American University campus.

For further information contact The American University Wolf Trap Academy for the Performing Arts, College of Arts and Sciences, The American University, Washington, D.C., 20016, or telephone (202) 686-2449, -2315.

Courses of Instruction

Undergraduate level course values are expressed as *course units* according to the following decimal notations: (c 00.25) = $\frac{1}{4}$ course unit; (c 00.50) = $\frac{1}{2}$ course unit; (c 00.75) = $\frac{3}{4}$ course unit; (c 01.00) = 1 course unit; (c 01.50) = $1\frac{1}{2}$ course units; etc.

Graduate level course values are expressed as *semester credit hours* according to the following decimal notations: (s 01.00) = 1 semester hour; (s 02.00) = 2 semester hours; (s 03.00) = 3 semester hours; etc. There are no fractional semester credit hours.

Undergraduate Courses

48.390 Independent Reading Course (c 00.25 through 02.00)

See Independent Reading Courses and Study Projects under General Curriculum Information.

48.490 Independent Study Project (c 00.25 through 02.00)

See Independent Reading Courses and Study Projects under General Curriculum Information.

*DANCE***48.130 Modern Dance I (c 00.25)**

Development of the ability to communicate through movement; development of a dance vocabulary, dance skills, and the ability to analyse movement and to understand dance.

48.131 Modern Dance II (c 00.25)

Continuation of Modern Dance I. Development of more complex dance skills through learning and analysing longer movement sequences.

48.219 Dance Repertory Performance (c 00.50)

A study of one or several specific dance works that have already been choreographed. This study has been undertaken with a view towards understanding various masterworks and professional pieces in the dance repertory. Students in this class will perform the piece or pieces learned.

48.301 Dance Composition I (c 00.50)

Discovery of a rich movement vocabulary and techniques of choreography.

48.305 Popular Dance Forms (c 00.50)

Different social dance forms—ballroom, square dance, etc.—authentically taught.

48.315 Movement Workshop (c 00.25)

The study of the relationship of various components of movement such as rhythm, style, dynamics, and space.

48.319 Dance Repertory Performance (c 00.50)

A study of one or several specific dance works that have already been choreographed. This study has been undertaken with a view towards understanding various masterworks and professional pieces in the dance repertory. Students in this class will perform the piece or pieces learned.

48.335 Ballet I (c 00.25)

The study of the vocabulary of classical ballet. Barre, port de bras, body and arm coordination.

48.336 Ballet II (c 00.25)

Continuation of Ballet I.

48.353 Jazz I (c 00.25)

Study of jazz development and its technique.

48.401 Dance Composition II (c 00.50)

The ability to find and develop movement and dance ideas into longer formal and informal structures.

48.453 Jazz II (c 00.25)

Continuation of Jazz I.

*MUSIC***48.104 Introduction to Theory (c 01.00)**

Basic general concepts of rhythm, melody, harmony, counterpoint, and form studies in the context of developing ear and sight reading proficiency.

48.105 Medieval Theory (c 01.00)

Line rhythm, notation, form and vertical relationships as practiced in Medieval music. Literature and style analysis, composition, sight reading, and aural dictation.

48.356 Symphonic Wind Ensemble (c 00.50)**48.359 National Youth Chorus (c 00.50)**

The chorus will rehearse and perform a wide variety of works. The chorus will not only perform as an autonomous unit, but will also rehearse and appear in concert with orchestra and dance elements.

48.360 Conducting (c 00.50)**48.369 National Youth Orchestra (c 00.50)**

The orchestra will rehearse and perform a wide variety of works. The orchestra will not only perform as an autonomous unit, but will also rehearse and appear in concert with chorus and dance elements.

48.361 History of Music since 1750 (c 01.00)

Music in Western civilization from the 18th century to the present. Illustrated with slides and recordings.

48.376 American Music (c 00.25)**48.377 Baroque Opera (c 00.50)****48.378 Composers Workshop (c 00.75)**

Discussions of all aspects of composition from business problems to aesthetics, and from

composition problems to copy-work. An expanded Moog Synthesizer and quadraphonic support system will be at the disposal of composer participants. Discussions and demonstrations with and by guest composers and performers.

THEATRE

48.314 Yoga (c 00.25)

Beginning yoga techniques which aid the performer in relaxation, physical awareness, and stage movement will be introduced and explored.

48.322 Workshop in Theatre Games (c 00.50)

This course is designed for undergraduate students and will explore theatre games as a technique for the actor's work. The work of Viola Spolin will form the basis for the course. The emphasis of the technique is on problem solving, group interaction, and spontaneity.

48.323 Voice (c 00.25)

This course, offered on a beginning, an intermediate, and an advanced level, will focus on voice production and vocal flexibility and relaxation. The method developed by Kristen Linklater of the New York University School of the Arts will form the basis for the work.

48.324 Scene Study (c 00.50)

Students will investigate, through the preparation of scenes, the actor's work on the development of a role. Objectives, character biographies, given circumstances, physicalization, the "magic if," and other Stanislavski techniques will be introduced. (Every effort will be made to assist teachers in examining the ways in which these techniques can be used with elementary and secondary students.)

48.325 Improvisational Explorations (c 00.50)

This course, open to selected undergraduate students, will focus on the problems of building performance pieces through ensemble work and improvisation. A number of different techniques for creating theatre pieces will be explored. Students will work three hours each day. This course should prove extremely valuable to those directing educational theatre programs as the technique encourages individual creative expression and sensory awareness.

48.326 Grotowski Technique for Corporal Expression (c 00.25)

The use of the voice and the body for expressing the creative self will be explored in this course. Sensory and physical awareness and the ability to use the body and voice as creative instruments form the basis of the work. While the techniques of Jerzy Grotowski will form the core of the course, the techniques will also include those the members of the Medicine Show Theatre Performing Ensemble use in their own work and those developed in the Open Theatre.

Graduate Courses

All courses listed below carry graduate credit. .500 level courses are open to graduate and qualified undergraduate students. Undergraduate students in .500 level courses receive one course unit for 3 or 4 semester hour credits. Courses at the .600 and .700 levels are open to graduate students only.

48.590 Independent Reading Course (s 01.00 through 06.00)

See Independent Reading Courses and Study Projects under General Curriculum Information.

48.690 Independent Study Project (s 01.00 through 06.00)

See Independent Reading Courses and Study Projects under General Curriculum Information.

DANCE

48.500 Arts Management (s 02.00)

The study of various facets of management in the arts such as contracts, logistics, organization, etc.

48.501 Dance Composition III (s 02.00)

Continuation of Dance Composition II. The ability to develop choreographic ideas for both individuals and groups.

48.502 Dance Improvisation (s 01.00)

The ability to develop dance and movement ideas from various structures and stimuli.

48.503 Labanotation (s 02.00)

Development of the ability to understand and utilize the system of notating dance developed by Rudolph von Laban in conjunction with an understanding of his theories of effort and shape.

48.504 Ethnic Dance (s 01.00 or 02.00)

Different dance forms from various ethnic groups. Recent studies have included Yemenite and African dance forms.

48.509 Performance through Repertory (s 02.00)

The understanding and analysis of dance performance through the study of repertory.

48.510 Technique through Repertory (s 02.00)

The understanding and analysis of dance technique through the study of repertory. In this class the student will examine the relationship between skill, projection, and performance with the focus on growth in all three.

48.511 Effort Shape (s 02.00)

Analysis of energy and flow in movement patterns leading to deeper understanding of source and motivation.

48.515 Movement Workshop (s 01.00)

The study of the relationship of various components of movement such as rhythm, style, dynamics, and space.

48.516 Anatomy and Kinesiology for Dance (s 02.00)

The understanding of the muscular and skeletal structure of the human body as it relates to dance movement and the understanding of the mechanical functioning of the human body as it relates to dance movement.

48.517 Dance Therapy (s 02.00)

Development of the ability to understand how movement can be used in various types of therapeutic situations. The understanding of the relationships of dance and feeling and dance and personality.

48.518 Costuming for Dance (s 02.00)

Designing costumes, primarily for dance. Each student will design and execute a costume or costumes for a dance. Approaches are getting to know available materials, both natural and man-made; seeing, feeling, and understanding every available element; using fabric; pictures, drawings, and photographs of costumes and performers; patterns, headdress, hairdos and interesting footwear; and the face, covered and uncovered.

48.519 Dance Repertory Performance (s 02.00)

A study of one or several specific dance works that have already been choreographed. This study has been undertaken with a view towards understanding various masterworks and professional pieces in the dance repertory. Students in this class will perform the piece or pieces learned.

48.520 Lighting and Costuming (s 02.00)

Development of the ability to understand the equipment used in lighting and how to use lights for a dance performance. Development of the ability to use and understand equipment needed for costuming in dance.

48.531 Modern Dance III (s 01.00)

Continuation of Modern Dance II. Student is expected to understand and perform very complex dance sequences. Student is expected to understand subtleties of quality and feeling in different kinds of dance patterns.

48.533 Jazz III (s 01.00)

Continuation of Jazz II.

48.535 Ballet III (s 01.00)

Continuation of Ballet II. Development of the ability to perform and understand complex dance sequences in the classical ballet vocabulary.

48.540 Graduate Dance Project Seminar (s 04.00)

Analysis of composition and technique directed towards methods in teaching. Graduate seminar. (This seminar encompasses two courses, so student should register for only one other course.)

48.549 Music for Dance (s 02.00)

The study of various musical periods through the analysis of music repertory and individual creative work.

48.589 Video Reading Class (s 01.00)

Learning from video tape, how it can and cannot be used. Will include the tapes of repertory works.

48.631 Modern Dance IV (s 01.00)

Continuation of Modern Dance III. At this level of modern dance the student is expected to perform, analyse, and learn at the professional level.

*MUSIC***48.550 Performance Practices (s 04.00)**

Class discussion, illustrated with slides, recordings, and student performances, of the relationships between vocal and instrumental idioms and techniques, musical notations, and historical conventions of performance; individual written and oral reports on specific problems of tempo, phrasing, dynamics, ornamentation, etc.

48.556 Symphonic Wind Ensemble (s 02.00)**48.559 National Youth Chorus (s 02.00)**

The chorus will rehearse and perform a wide variety of works. The chorus will not only perform as an autonomous unit, but will also rehearse and appear in concert with orchestra and dance elements.

48.560 Conducting (s 02.00)**48.562 Choral Arts Workshop (s 02.00)**

An intensive study of the choral art designed for choral directors; sessions will include rehearsal techniques, repertoire-program building, diction-communication, building choral tone, balance and blend, techniques of conducting, choral musicianship, and evaluation of selected literature.

48.563 Chamber Music Ensemble (s 02.00)

Ensembles of various sizes, both vocal and instrumental, will rehearse and perform a wide variety of compositions.

48.569 National Youth Orchestra (s 02.00)

The orchestra will rehearse and perform a wide variety of works. The orchestra will not only perform as an autonomous unit, but will also rehearse and appear in concert with chorus and dance elements.

48.576 American Music Workshop (s 02.00)

An investigation of the composers and compositions of the United States, from colonial times to the present. The first session will concentrate on vocal music; the second session will focus on piano literature, instrumental works, and jazz. American innovations in musical notation will be examined: shape-note traditions and "New Music" experiments. Field trips to the Library of Congress and the Smithsonian Institution to examine scores, and to hear and see early American musical instruments.

48.577 Baroque Opera Workshop (s 04.00)

A full-length English language opera from the Baroque era will be produced as the final project of this workshop. The component aspects of Baroque opera will be subjects of class sessions, with units devoted to the historical perspectives of the art-form, make-up, set design, stage movement, and costuming. Major roles for the production will be chosen through audition from those students enrolled in the workshop.

48.578 Music Composers Workshop (s 06.00)

Discussions of all aspects of composition from business problems to aesthetics, and from composition problems to copy-work. An extended Moog Synthesizer and quadraphonic support system will be at the disposal of composer participants. Discussions and demonstrations with and by guest composers and performers.

48.676 American Music (s 01.00)**48.677 Baroque Opera (s 02.00)****48.678 Composers Workshop (s 03.00)**

Discussions of all aspects of composition from business problems to aesthetics, and from composition problems to copy-work. An expanded Moog Synthesizer and quadraphonic support system will be at the disposal of composer participants. Discussions and demonstrations with and by guest composers and performers.

THEATRE**48.513 Mime (s 02.00)**

This course will focus on mimetic expression for the actor. The techniques will be based on those developed by the French mime Jacques LeCoq and will include work with masks.

48.514 Yoga (s 01.00)

This course is designed for advanced undergraduates and graduate students who have some knowledge of yoga and who wish to explore more advanced techniques and exercises. The utilization of yoga techniques by the actor and dancer will be emphasized.

48.521 Circus Technique (s 01.00)

This course will include juggling, acrobatics, and trapeze work, and will focus on the use of these skills and performance in creative dramatics.

48.522 Workshop in Theatre Games (s 02.00)

This course is designed for those who have had some experience with improvisation and theatre games, for graduate students with theatre experience, and for those teaching theatre and creative dramatics. This course will include advanced concepts in problem solving, ensemble acting, and spontaneity. The work will be based on the techniques developed by Viola Spolin. Teachers will be encouraged to understand how such work may be used in the classroom.

48.523 Voice (s 01.00)

This course, offered on a beginning, intermediate, and advanced level, will focus on voice production and vocal flexibility and relaxation. The method developed by Kristen Linklater of the New York University School of the Arts will form the basis for the work.

48.524 Scene Study (s 02.00)

The techniques for developing complex characters will be explored. Stanislavski's method of physical actors will serve as a basis for the work. Techniques of Grotowski and Michael Chekov will also be included. Selected students may concentrate on directing rather than acting technique. Students enrolling for this course should have had acting experience and several performance courses or be actively involved in educational theatre programs.

48.525 Improvisational Explorations (s 02.00 through 03.00)

This course, open to selected graduate students, will focus on the problems of building performance pieces through ensemble work and improvisation. A number of different techniques for creating theatre pieces will be explored. Students will work three hours each day. This course should prove extremely valuable to those directing educational theatre programs as the technique encourages individual creative expression and sensory awareness.

48.526 Grotowski Technique for Corporal Expression (s 01.00)

The use of voice and body for expressing the creative self will be explored in this course. Sensory and physical awareness and the ability to use the body and voice as creative instruments form the basis for the work. While the techniques of Jerzy Grotowski will form the core of the course, the techniques will also include those the members of the Medicine Show Theatre Performing Ensemble use in their own work and those developed in the Open Theatre.

48.527 Explorations of Sound, Movement, and Color (s 02.00)

This course will focus on the integration of sound, movement, and color in performance and will encourage individual creative expression. The course should prove valuable both to those with a performance focus and those seeking new techniques for educational theatre. The course is open to advanced undergraduate and graduate students.

48.528 Movement for Actors (s 01.00)

The course will explore the basic problems of stage movement. It will focus on techniques of achieving spontaneous movement, movement appropriate to particular characters, physical relaxation and precision, clarity and purposefulness in movement, as well as techniques for specific problems such as stage falls.

48.529 Design Concepts (s 02.00)

Theodora Skipadour will explore how one designs stage environments and stage clothing so that they become an integral part of the performance and assist the work of the actor and director. This is not a traditional design course and does not include drafting. No design experience is required but students should have some background in theatre and a willingness to experiment. The enrollment will be restricted to advanced undergraduate and graduate students.

48.580 Theatre Games as an Extended Acting Technique (s 02.00)

This course, designed primarily for graduate and very advanced students, will explore the ways in which one uses theatre games to develop full performance pieces, solve acting problems, and maintain spontaneity in extended performance situations. The relationships between the "games approach" and more traditional acting methods will also be explored.

48.581 Improvisational Exploration of Scripts (s 02.00)

Students will explore the techniques of approaching scripts through improvisation, discovering the essence of these scripts and building performance pieces based on them. The technique is useful not only for building performances but also for assisting elementary and secondary students in understanding literary works. The course will be offered on a beginning, an intermediate, and an advanced level.

School of

Business Administration

ACTING DEAN	Maury Seldin
Assistant Dean for Masters Programs	Percy L. Jones
Assistant Dean for Undergraduate Studies	Francis J. Girard

Purpose

The School of Business Administration prepares men and women for careers as executives and specialists in business and other complex organizations. The school concentrates on these functions: (1) to provide its students with a firm base of liberal education; (2) to present instruction in professional fields so that students can understand the entire business decision making process and the function of specific areas of specialization; (3) to associate closely with other schools and colleges of the University to enrich the understanding of its students; (4) to develop in its students the ability to project their thinking into the future by seeing business not only in the present, but also in relation to the past; and (5) to have each student leave school with a coherent and ever-developing personal philosophy of business, an understanding of the ever-changing technological world in which he lives, and a firm awareness of his social responsibility.

Instruction and Research

The school centers its activity around two themes: (1) the businessman as planner, decision maker, implementer, and controller of operations in a business firm; and (2) the businessman as an analyst of the social, economic, and political environment.

Business Administration

Correspondence Directory: Maury Seldin, *Acting Dean*

Percy L. Jones, *Assistant Dean for Masters Programs*

Francis J. Girard, *Assistant Dean for Undergraduate Studies*

Full-time Faculty

Professor: Charles I. Bartfeld, Marvin L. Fair (Emeritus), Herbert Glazer, Joseph E. Hampton, Laura L. Karadbil, Markev Kibarian (Visiting), Edward R. Lehman, Howe Martyn, Walter F. Mulbach (Emeritus), James Owens, Nikos G. Photias (Emeritus), Reynold M. Sachs, Maury Seldin, Harold F. Sylvester, Harry Wheaton (Emeritus), Harold B. Weiss (Emeritus)

Associate Professor: George R. Allen, Donald R. Brenner, Kirk L. Burns, William C. Dulin, Raymond Einhorn (Visiting), Keith Fay (Visiting), Ronald H. Gorman, William Halal, Jimmy D. Johnson, John Kokus, Jr., Harry Rosenthal, Robert Springer

Assistant Professor: James R. Butts, Peter Cirafici, Anita F. Gottlieb, Donald C. Guy, Philip Jacoby, James C. Sharf

Instructor: Ina Beckhoefer, Robert W. Kopprasch

Undergraduate Degree

Admission—See Admission for Undergraduates under Admission Information.

Composition and Reading Requirement—See Undergraduate Degree Requirements under General Academic Regulations.

Bachelor of Science in Business Administration

This degree requires a minimum of thirty-two courses with at least a "C" overall average and at least a "C" grade in each course in the major. The required courses are:

1. General Studies Requirements (fifteen courses)

General studies in basic areas of knowledge for broad, rounded education and as foundations. Designed to strengthen basic skills, provide background of knowledge whereby students can move easily in the world of ideas, and increase appreciation of values of our society.

Composition and Reading (2)

Computers (1)

Economics (2)

Mathematics (1)

Psychology or Sociology (1)

Statistics (1)

Electives (7) non-Business

2. Business Administration Requirements (five courses)

These courses are required of all business students.

(A) Common Requirements for all Business students (five courses)

Accounting

Business Law

Corporate Finance

Marketing

Applications in Management (senior year)

3. Major (four courses)

The major, four related courses, provides limited study in selected functional areas of business. This major, like a major in any other school in the University, is the student's exploration in depth and shows his ability to master an integrated curriculum.

The student may use his electives to further intensify study of a specific major or to accomplish a double major.

The available majors are:

SCHOOL OF BUSINESS

Accounting
Finance
Marketing
Personnel
Urban Development
Computer Systems (Approved Interdisciplinary)
Business Economics (Approved Interdisciplinary)

INTERDISCIPLINARY STUDY

In addition to the structured approved interdisciplinary majors noted above, University Regulations provide that a student may propose a major built around a central theme that cuts across various disciplines.

The major must be officially selected (or confirmed) before registration for the first session of the junior year. Forms must be acquired from and filed in the Office of Assistant Dean, Undergraduate Studies, and in the Office of the Registrar. Changing majors later than the beginning of the junior year may require additional courses.

4. Electives (eight courses)

Four electives must be in either Business Administration, Economics or Center for Technology and Administration. The other four may be selected from any area of the University.

5. Advanced Standing

(A) Freshmen.

For details on Advanced Placement see Undergraduate Admission.

(B) Transfer Students

In addition to acceptance of transfer credits from accredited schools, advanced standing is available to CPA's, Members of the Bar, and American Institute of Banking students. Consult the Assistant Dean for Undergraduate Studies for details.

6. Recommended Program for the First Three Semesters

FIRST SEMESTER

Composition and Reading I
Mathematics
Psychology or Sociology
Non-business elective

SECOND SEMESTER

Composition and Reading II
Introduction to Computing or Statistics
(both are required)
Economics
Non-business elective

THIRD SEMESTER

Business Law
Accounting
Introduction to Computing or Statistics
(both are required)
Non-business elective

The remaining five semesters would be based upon the student's degree major.

Institute for Housing and Urban Development Studies

The major goal of the institute's certificate programs is to improve the quality of housing and urban development decisions in an increasingly complex society. This goal is pursued by offering a group of courses intended for managerial and professional people already in the field or aspiring to responsible positions calling for the application of expert knowledge.

Undergraduate Certificate in Real Estate

This innovative program provides an integrated "package of courses" for those seeking competence in the field of real estate. Credit is applicable to University degree programs.

I. Foundation Courses

- A. 19.100 Introduction to Economics (course unit)
- B. 11.470 Urban Development (course unit)
or
19.306 Money and Banking (course unit)
- C. 11.471 Housing and Social Control (course unit)
or
11.472 Residential Construction (course unit)
- D. 11.476 Real Estate Investment Strategy (course unit)

II. Real Estate and Urban Development Courses

- A. 11.477 Real Estate Transactions (course unit)
- B. 11.572 Housing Low- and Moderate-Income Families (3 semester hours)
or
11.571 Landlord-Tenant Relations (3 semester hours)
- C. 11.578 Real Estate Law (3 semester hours)
- D. 11.460 Institute on Property Management I (course unit)
or
11.563 Institute on Real Estate Appraisal Ia (3 semester hours)

III. Internship

- 11.592 Internship in Urban Real Estate Problems (1 through 6 semester hours)

Internships are arranged through the Office of the Director, Institute for Housing and Urban Development Studies.

Graduate Certificate in Housing and Urban Development

This program offers a variety of courses specifically oriented to contemporary problems for the college graduate who wishes to increase his proficiency in the field. A unique feature is the offering of internship credit for experience which relates the body of knowledge to real world situations.

I. Admission Requirements

- A bachelor's degree from an accredited institution.

II. Prerequisite Courses

- A. 11.477 Real Estate Transactions (course unit)
- B. 11.578 Real Estate Law (3 semester hours)
- C. 11.572 Housing Low- and Moderate-Income Families (3 semester hours)
or
11.571 Landlord-Tenant Relations (3 semester hours)
- D. 11.460 Institute on Property Management I (course unit)
or
11.563 Institute on Real Estate Appraisal Ia (3 semester hours)

III. Advanced Courses

- A. 11.685 Land Planning and Use (3 semester hours)
- B. 11.684 Mortgage Banking (3 semester hours)
- C. 11.683 Real Estate Market Analysis (3 semester hours)
- D. 11.776 Seminar in Real Estate Administration (3 semester hours)
or
11.778 Seminar in Land Planning and Use (3 semester hours)
or
11.779 Seminar in Housing and Urban Development (3 semester hours)
- E. 11.561 Institute on Property Management II (3 semester hours)
and
11.566 Institute on Property Management IV (3 semester hours)
or
11.564 Institute on Real Estate Appraisal Ib (3 semester hours)
and
11.565 Institute on Real Estate Appraisal II (3 semester hours)

IV. Internship

11.592 Internship in Urban Real Estate Problems (1 through 6 semester hours)

Internships are arranged through the Office of the Director, Institute for Housing and Urban Development Studies. Internship credit may be substituted for up to two courses, with the approval of the Director or Associate Director of the Institute.

Graduate Degrees

Admission

See Graduate Admission under Admission Information.

Application may be made for any fall, spring, or summer session. Note: The Admission Test for Graduate Study in Business scores must be provided.

If an applicant has missed the University deadline for admission to degree status, he may (1) request the School of Business Administration's permission to apply for admission to the College of Continuing Education in order to begin studies toward a graduate business degree and/or (2) apply for admission to degree status for the following session. No more than 12 credits of graduate courses may be transferred from non-degree status.

Admissions Criteria

ATGSB: All applicants must submit a valid (taken within last 3 years) ATGSB score to be considered for admission. This test is used as an admissions criterion by the leading graduate schools of business administration. The test is offered five times a year in various locations. Applications should be received by Educational Testing Service no later than three weeks before date of test for examinations in U.S. and its territories or Canada. For candidates tested in other countries the registration deadline is five weeks before test.

The Bulletin of Information for Candidates is available from the Educational Testing Service, Box 966, Princeton, New Jersey 08540. The ATGSB is *not* designed to test specific knowledge in business administration. It seeks to measure *aptitude* for, not knowledge of, business administration by seeing whether candidates can understand and use words and numbers and reason effectively. Normal undergraduate education should provide sufficient general knowledge to deal adequately with test questions.

Applicants for the fall semester should take test in February or April; and for spring, in June, August, or November.

Normally, the admissions committee seeks applicants with scores of 500 or better (scores range from 200 to 800).

Grade Average: University minimum standards require students to have achieved a 2.5 (on 4.0 scale) average in the last 2 years of undergraduate education and a 3.0 on all graduate work attempted. Exceptions to minimum standards are made in limited, exceptional circumstances.

Recommendations: Two letters of recommendation either from former professors or from recent employers and evidence of professional attainment aid the admissions committee in actions on MBA and M.S. applications. Ph.D. applicants must have letters of recommendation from two of their former professors.

Foreign Students: Non-native speakers of English must also submit a score for the Test of English as a Foreign Language (TOEFL). Scores in excess of 500 give indication of competency in English.

MASTER OF BUSINESS ADMINISTRATION

The MBA program is designed to provide a professional education for persons aspiring to positions with administrative responsibility. The degree is management oriented and it also provides depth within a specific concentration. The program is preparatory to an administrative position in business, government, or other forms of organization.

Many of the students in the MBA program hold full-time or part-time jobs in managerial positions in the Greater Washington area. While a full-time degree program may be followed, *the complete degree may also be obtained on a part-time basis attending only evening classes, including summer school.*

Degree Requirements

The MBA program consists of 16 self-contained graduate courses. Present requirements are 33 credits in the core curriculum, 12 credits in an area of concentration, and three credits in approved elective courses. Undergraduate work in business subjects is not a prerequisite.

Preparatory Competence

A student with prior business education may petition for a waiver of an MBA core course without examination. A student with course work or appropriate experience, which has not been judged acceptable for a direct waiver, may be allowed to demonstrate competence by a waiver examination.

Waiver examinations will be given in the fall, spring, and summer sessions. Applications for waiver examinations must be filed within six months after registration and must be taken within one year after such registration. Applicants will be notified of action taken and dates of examination.

Performance Standards

All students must maintain a minimum 3.0 (B) average in all courses attempted and a minimum 3.0 (B) average in all areas of concentration courses. If a student has not maintained a "B" average by the time of normal eligibility for advancement to candidacy, or if his average falls below "B" at any time thereafter, he may be subject to dismissal from the University.

Residence Requirements

Thirty hours of graduate courses must be completed with a grade average of at least "B". Twenty-four of these hours must be completed in residence at The American University.

Advancement to Candidacy

After fulfilling all conditions and obligations specified in individual Graduate Admission Notices and completion of at least 15, but no more than 24 graduate credits in the School of Business Administration, a student must apply for "Advancement to Candidacy." Students with advanced standing either by transfer of equivalent graduate work or by waiver examinations must apply before the sum of all their credits exceeds 24 hours.

Advancement to candidacy means admission to full standing if admitted on a provisional basis. It does NOT imply admission to comprehensive examinations. The Assistant Dean for Masters Programs will notify the applicant of action taken.

Curriculum

- I. Core Requirements (11 courses)
 - 10.603 Managerial Accounting
 - 10.604 Business in Its Social Environment
 - 10.605 Financial Management
 - 10.606 Managerial Statistics
 - 10.607 Quantitative Methods
 - 10.608 Behavior of Complex Organizations
 - 10.609 Human Behavior in Organizations
 - 10.612 Business Economics
 - 10.642 Managerial Economics
 - 11.601 Marketing Management
 - 10.755 Seminar in Management of Enterprise
- II. Area of Concentration (4 courses selected as a "major")
- III. Approved Electives (1 course)

AREAS OF CONCENTRATION (COMPREHENSIVE EXAMINATION FIELDS)

The School of Business Administration offers the following fields for comprehensive examinations in the MBA program. (Students must consult with faculty specialists in the fields before beginning studies in these courses.)

ACCOUNTING (10.010)

This field is designed to provide a technical and theoretical foundation at an advanced level for persons wishing a more thorough and comprehensive understanding of accounting than can be provided at the undergraduate level. An accepted candidate who does not have prior credit for undergraduate accounting courses will be granted an extension of statute of limitations to fulfill prerequisite accounting courses. The graduate program is as follows:

Choose two of the following three courses:

- 10.532 Advanced Income Taxes
- 10.634 Systems Design and Installation
- 10.639 Controllorship in Business

In addition to the following required courses:

- 10.710 Contemporary Accounting Theory
- 10.711 Seminar in Accounting Theory

BUSINESS-GOVERNMENT RELATIONS (10.015)

This concentration is offered to students who have a desire to acquire the knowledge basic to an understanding of the interface between business and government. Areas covered include regulation and control of business, corporate public affairs, Washington affairs, and relationships with the legislative and executive branches. Major area courses include:

- 10.680 Regulation and Control of Business
- 10.701 Seminar in Corporate Public Affairs
- 10.705 Seminar in Current Business-Government Relations
- 10.706 Seminar in Corporate-Government Policy

EMPLOYEE RELATIONS (10.027)

This field is concerned with the vital responsibility of all managers in the direction of development of human resources. While important to all managers, the employee relations specialist needs a comprehension of the human problems of the workplace and a familiarity with the theory and practice of personnel management and collective bargaining, (as provided by this area of concentration.) Courses include:

Choose two of the following five courses:

- 10.692 Collective Bargaining and the Public Interest
- 10.694 Seminar in Employee Training and Development
- 10.695 Industrial Relations: The Legal Environment
- 10.697 Labor Relations Management
- 10.690 Independent Study

In addition to the following required courses:

- 10.791 Seminar in Personnel and Manpower Management
- 10.792 Seminar in Industrial Relations

FINANCE (10.020)

This field embraces the areas of Corporate Finance, Investments, and Commercial Banking. The program is designed to prepare graduate students for employment in any of these areas. The four courses are:

- 10.665 Financial Statement Analysis
- 10.667 Working Capital Management
- 10.668 Advanced Investment Analysis
- 10.671 Commercial Banking Policies

INTERNATIONAL BUSINESS (10.023)

This field studies management of private and public enterprises that operate across national frontiers. Beside the following four courses offered by the School of Business Administration, additional or alternative courses may be obtained, with permission, in the Department of Economics, the School of International Service, and other member universities in the Washington Consortium.

- 11.627 Export/Import Management
- 11.628 International Marketing
- 11.629 The Multinational Firm
- 11.726 Seminar in International Business

MANAGERIAL ECONOMICS (10.002)

This field encompasses macro and microeconomic theories which pertain to the decisions of the firm, including demand and cost analysis, pricing, forecasting, and managerial economic planning and policy. The courses required are courses to be approved by the faculty.

MARKETING (10.025)

This field consists of marketing theory, concepts and principles, and the techniques of application. The four courses are:

- 11.602 Consumer Behavior
- 11.603 Industrial and Consumer Markets
- 11.604 Research for Marketing Management
- 11.701 Seminar in Marketing Theory

OPERATIONS ANALYSIS (10.026)

This program uses an interdisciplinary approach to the present areas of technology of management and presents a balance between specific quantitative/technical fields, management and related areas. The program is designed to integrate and synthesize the tools of management science and computers from the point of view of management. The major emphasis in this program is on preparing mature graduate students for positions of increased executive responsibility and leadership. Course requirements are flexible, with relevant courses selected from offerings within the University on the basis of their suitability to the individual student as determined in consultation with his faculty advisor.

Three courses to be selected

and

- 11.795 Seminar in Operations Analysis

REAL ESTATE (10.028)

This field embraces the systems in which Real Estate and Urban Development decisions are made. It emphasizes the theories and applications of Land Use Planning and development decisions, the financing of real estate and urban development, the tools of real estate analysis and the decision-making and urban management process. The courses required are:

- 11.684 Mortgage Banking
- 11.685 Land Planning and Use
- 11.778 Seminar in Housing and Urban Development
- or
- 11.779 Seminar in Land Planning and Use
- 11.776 Seminar in Real Estate Administration

TRANSPORTATION (10.032)

This field consists of theory principles, history, and business and regulatory practices in transportation, distribution and logistics. The required courses are:

- 12.661 Principles and Problems of Transportation
- 12.662 Transportation Policy Administration
- 12.665 Physical Distribution Management
- 12.762 Seminar in Transportation

Additional Fields

To satisfy the needs of students with special interests, special programs of concentration may be arranged, by petition, between student and his advisor. This comprehensive field may be a business-related one offered by one of the other schools or colleges of The American University.

Comprehensive Examinations

The field for comprehensive examination is formally designated by the student when he applies for advancement to candidacy and are selected in accordance with the field options applicable to the student's degree program. However, the student is encouraged to select his field as early in his program as possible so as to facilitate proper course planning in consultation with his faculty advisor.

A comprehensive examination in the major field of study must be successfully completed.

Eligibility: A student must be advanced to candidacy in order to be eligible to take the comprehensive examinations. In addition, all courses in his degree program must be completed or in progress during the semester in which the examination is to be taken. The student must have the required grade average with no outstanding requirements such as "incomplete" grades.

Scheduling: SBA comprehensive examinations are administered during the fall, spring, and summer semesters. Applications and payment of the required fee for comprehensive examinations must be submitted to the Graduate Studies office prior to the posted deadline.

Final application date for students with comprehensive areas outside SBA must check the appropriate deadline within the department administering the examination.

Retakes: If a student fails his comprehensive examination, he may petition for a retake to be completed within one year. Only one retake is permitted.

Graduation Clearance

Graduation clearance procedures are promulgated by the University Registrar. Students are advised to follow University procedures and dates. Applications are normally due no later than the semester prior to that in which the student intends to graduate.

Advisory Relationships

Each Master's degree student will consult with the Assistant Dean for Masters Programs for advice and assistance in his program. The student is additionally expected to work with an advisor in the comprehensive field area.

Appellate Procedures: SBA has a faculty-student committee which hears appeals by students from decisions made by faculty or administrators concerning academic regulations. See the Assistant Dean for further information.

Maintaining Matriculation

The University requires students who have begun their graduate program to register for at least the fall semester of each academic year until they complete their entire program. Therefore, if a student does not register for course work, or comprehensive examinations during the fall semester, he must register in the fall semester of each year under the designation 10.099 Maintaining Matriculation (non credit) and pay the required fee. Students who do not pay the fee will have their status in the degree program terminated and will have to apply for readmission.

Readmission

A student who is not formally enrolled in the University for two consecutive semesters (summer excluded) must apply for readmission. Readmission to a degree program may be granted once for a maximum period of three years in light of the requirements for the degree in effect at the time of readmission.

Statute of Limitations

All Master's degree requirements are expected to be completed within three calendar years (including summers) from the date of first registration in the graduate program. If not completed within that period, the student must petition the Dean of the School of Business Administration for extension of the statute of limitations if he wishes to continue. Extensions are not automatic; the student must provide evidence that he has attempted to complete the degree within the allotted time. If the petition is approved, a new terminal completion deadline will be set which may not exceed three additional calendar years.

MASTER OF SCIENCE DEGREES

Master of Science degrees are designed for those students who desire a professional degree with greater emphasis on an area of specialization than available in the MBA management-oriented program. This degree emphasizes developing the perspective especially necessary to the executive function in an area of specialization.

Admissions Criteria

Admissions requirements, including the required Admissions Test for Graduate Study in Business are the same as for MBA program.

Degree Requirements

The M.S. degrees in the School of Business Administration consist of self-contained graduate courses, with no undergraduate prerequisite course requirements. Present requirements are indicated under each M.S. degree offering.

Preparatory Competence

For a student with no prior education in business, the M.S. programs consist of the credit hours indicated under each program.

A student with prior business education may petition for a waiver of an M.S. core course with examination. A student with course work or appropriate experience not acceptable for a direct waiver, may petition for a waiver examination.

If a student has had extensive preparatory competence, substitutions may be made in his program, provided he completes 30 graduate hours, of which 24 must be completed at The American University.

Waiver examinations will be given in the fall, spring, and summer sessions. Dates for application deadlines will be posted on the master's bulletin board outside Hamilton 102. Application for waiver examinations must be filed within six months after registration and must be taken within one year after registration. Applicants will be notified of action taken and dates of examination.

Performance Standards

See requirements under MBA program.

Residence Requirements

Thirty hours of graduate courses must be completed with a grade average of at least "B".

Advancement to Candidacy

See MBA program requirements.

Comprehensive Examinations

See MBA program requirements.

Graduation Clearance

See MBA program requirements.

Advisory Relationships

See MBA program requirements.

Maintaining Matriculation

See MBA program requirements.

Readmission

See MBA program requirements.

Statute of Limitations

See MBA program requirements.

MASTER OF SCIENCE IN BUSINESS-GOVERNMENT RELATIONS

The objective of this program is to provide a course of study in which students may prepare professionally with the practical knowledge needed to become Business-Government Policy experts in their organizations.

- A) For persons preparing to enter the business environment, it would provide the training necessary to begin work in the newly established and growing functions within the corporation dealing with governmental affairs.
- B) For the student interested in careers in government, it would provide the necessary knowledge to function in those areas of government in which an understanding of the practical aspects of the Business-Government relationship is essential to enlightened decision making.
- C) For persons already engaged in a business or government career the program provides an opportunity to build upon the experience already acquired in order to broaden their perspective and Business-Government expertise.

Curriculum

The program shown below offers (1) a management core, (2) an option middle phase to be designed by the student in conjunction with his advisor. This middle core is flexible and interdisciplinary allowing the student to choose work throughout the University which best fits his needs, and (3) a final phase of graduate problem-oriented seminars, work/study, and independent projects. The program consists of 16 graduate courses (48 credit hours).

Phase I (Management Core)

- 10.553 Business-Government Relations
- 10.603 Managerial Accounting

- 10.604 Business in Its Social Environment
- 10.605 Financial Management
- 10.606 Managerial Statistics
- 10.608 Behavior of Complex Organizations
- 10.642 Managerial Economics

Phase II (Illustrative Options)

One area (option) to be chosen:

GOVERNMENT OPTION

- 53.660 Political Institutions and Behavior
- 53.672 Law of the Administrative Process
- 53.651 The Legislative Process
- 53.652 The National Executive
- 10.680 Regulation and Control of Business: Theory and Practice

PUBLIC RELATIONS OPTION

- 72.540 Principles of Public Relations
 - 72.541 Publicity Writing
 - 72.542 Promotional Campaigns
- Two approved major-related courses

GOVERNMENT PUBLIC INFORMATION OPTION

- 17.501 Legal Aspects of Communication
 - 17.503 Mass Media and Society
 - 17.544 Public Relations and Government
- Two approved major-related courses

ADDITIONAL OPTIONS

To satisfy the needs of students with special interests, special options may be arranged between the student and his advisor.

Phase III (Business-Government)

- 10.701 Seminar in Corporate Public Affairs
- 10.705 Seminar in Current Business-Government Relations Problems
- 10.690 Independent Work-Study

MASTER OF SCIENCE IN EMPLOYEE RELATIONS MANAGEMENT

This degree is designed for the student who plans on a career, or is now employed, as an employee relations specialist. It provides a broad, intense coverage of all aspects of the discipline, which is required for professional career performance and development.

Curriculum (39 graduate hours—13 courses)

I. Core Requirements

- 10.606 Managerial Statistics
- 10.604 Business in Its Social Environment
- 10.642 Managerial Economics
- 10.608 Behavior of Complex Organizations
- 10.609 Human Behavior in Organizations

II. Major Comprehensive Field

- 10.692 Collective Bargaining and the Public Interest
- 10.694 Seminar in Employee Training and Development
- 10.695 Industrial Relations: The Legal Environment
- 10.697 Labor Relations Management
- 10.791 Seminar in Personnel Management
- 10.795 Seminar in Manpower Management

III. Electives (Choose 2 of the following courses)

- 10.792 Seminar in Industrial Relations
- 10.690 Independent Research Project
- 54.614 Public Personnel
- 54.616 Labor Relations in Public Employment

Or any other major-related .600 or .700 course approved by the faculty advisor.

MASTER OF SCIENCE IN REAL ESTATE AND URBAN DEVELOPMENT PLANNING

This field embraces the systems in which real estate and urban development decisions are made. It places emphasis on the theories and applications of land use management, the tools necessary to analyze real estate and urban development markets and investments, the financing of real estate and urban development, the methodology for collecting and producing real estate and urban development data, the methods of handling such data and the way decisions are and/or should be made in the field of real estate and urban development and management.

Curriculum (48 graduate credit hours—16 courses)

I. Core Requirements

- 10.603 Managerial Accounting
- 10.605 Financial Management
- 10.606 Managerial Statistics
- 10.607 Quantitative Methods
- 10.612 Business Economics
- Approved management elective

II. Major Requirements

- 72.578 Real Estate Law
- 11.683 Real Estate Market Analysis
- 11.684 Mortgage Banking
- 11.685 Land Planning and Use
- 11.776 Seminar in Real Estate Administration
- 11.778 Seminar in Land Planning and Use
- 11.779 Seminar in Housing and Urban Development
- 54.680 The Urban Policy or
- 54.684 Urban Planning
- 31.503 Real Estate Appraisal II or
- 72.570 Housing Low & Moderate Income Families

Approved Major-related elective

DOCTOR OF PHILOSOPHY IN BUSINESS ADMINISTRATION

Statute of Limitations

All degree requirements, including defense of dissertation, must be completed within five years from the date of the first registration as a doctoral student.

Further Information

Information on the Ph.D. program is available by writing to the Dean, or by calling (202) 686-2118. School of Business Administration, The American University, Washington, D.C. 20016.

Courses of Instruction

Undergraduate level course values are expressed as *course units* according to the following decimal notations: (c 00.25) = $\frac{1}{4}$ course unit; (c 00.50) = $\frac{1}{2}$ course unit; (c 00.75) = $\frac{3}{4}$ course unit; (c 01.00) = 1 course unit; (c 01.50) = $1\frac{1}{2}$ course units; etc.

Graduate level course values are expressed as *semester credit hours* according to the following decimal notations: (s 01.00) = 1 semester hour; (s 02.00) = 2 semester hours; (s 03.00) = 3 semester hours; etc. There are no fractional semester credit hours.

Undergraduate Courses

10.001 Student Orientation (No course value)

Required of all freshmen and transfer students with less than 30 credit hours.

10.201 Business Law (c 01.00)

Scope of Business Law. Individual, business, legal relationship. Legal concepts, philosophy, and functions. Federal, state court systems. Survey coverage of contracts, sales, agency, business forms, property. Introduction to negotiable instruments.

10.206 Introduction to Financial Accounting (c 01.00)

Basic principles and underlying concepts. Assets, equities, fundamentals of income measurement, financial statements. Uses, limitations of financial data. Current reporting practices. Appraisal of accounting.

10.207 Accounting Methods (c 00.50)

Fundamental methods and techniques. Introduction to systems of data accumulation and analysis. Manual and computer practice cases. *Prerequisite:* 10.206 (Introduction to Accounting) or permission; 10.207 should be taken concurrently with 10.208 (Managerial Cost Accounting) if student plans further study in Accounting.

10.208 Managerial Cost Accounting (c 01.00)

Use of accounting data for planning, control and decision making. Basic concepts and techniques. Responsible accounting performance measurement. Standard cost and flexible budgets as a management tool. Cost analysis for management planning and control, special decision-making. *Prerequisites:* 10.206 (Introduction to Financial Accounting); 10.207 (Accounting Methods) should be taken concurrently with 10.208 if student plans further study in Accounting.

10.256 Management of Organizations (c 01.00)

Survey of the field of management intended to acquaint the student with current management theories, research, and practice. Course content represents a synthesis of the quantitative and behavioral sciences providing a broad framework of management. Main topics include history of management, organizational goals and responsibilities, models, decision theory, planning, control, organization, motivation, leadership, group behavior, conflict, and organizational change.

10.302 Advanced Business Law (c 01.00)

Specific in-depth coverage of the functions, form and content of commercial paper. Law of real and personal property. Legal bibliography. In-depth study of the legal requirements of business. Case research. *Prerequisite:* 10.201 (Business Law).

10.308 Intermediate Accounting (c 01.00)

Nature, valuation of assets and equities; measurement of business income. Generally accepted accounting principles and procedures. Financial reports and analysis. *Prerequisites:* 10.207 (Accounting Methods) and 10.208 (Managerial Cost Accounting) or permission of Accounting Dept.

10.309 Advanced Accounting (c 01.00)

Consolidated financial statements. Partnership accounting, business organizations and business combinations. Estate, trusts, and other fiduciary accounting. *Prerequisite:* 10.308 (Intermediate Accounting).

10.365 Corporation Finance (c 01.00)

A basic course on corporate financial structure; sources, acquisition and management of short-term and long-term funds in both the money and capital markets; money market instruments; the valuation and analysis of corporate capital structure in terms of risk, control, and flexibility. *Prerequisite:* 10.206 (Introduction to Financial Accounting).

10.390 Readings in Business Administration (c 00.25 through 02.00)

See Independent Reading Courses and Study Projects under General Curriculum Information.

10.410 Accounting: Readings and Problems (c 01.00)

Selected topics in financial accounting focusing on current issues. *Prerequisite:* 10.309 (Advanced Accounting) or permission.

10.411 Advanced Cost Accounting (c 00.50)

Continuation of 10.208. Advanced treatment of selected topics. Including standard cost and variance analysis.

10.421 Auditing (c 01.00)

Audit objectives. Framework of auditing standards. Basic auditing procedures, techniques.

Nature and function of audit working papers. Tests and sampling in the auditing process. *Prerequisite:* 10.309 (Advanced Accounting).

10.431 Fundamentals of Income Tax (c 01.00)

Introduction to federal taxation relating to corporations, individuals and partnerships. *Prerequisite:* 10.206 (Introduction to Financial Accounting).

10.452 Business Responsibility in American Society (c 01.00)

The historical and contemporary role of the American firm as a social, political and economic institution. The social responsibility of business to its publics. Heavy emphasis on student participation, cases.

10.455 Quantitative Analysis (c 01.00)

Mathematical tools necessary for the solution of business problems under conditions of certainty and uncertainty. Introduction of concepts underlying decision-making. Emphasis upon the understanding of modern techniques rather than technical proficiency. *Prerequisites:* all SBA requirements in economics, math, statistics, computers.

10.458 Application in Management (c 01.00)

Provides a problem-solving environment which is intended to integrate knowledge in functional areas of business, and to simulate immediate management experience. Various methods intended to simulate the management environment may be employed, including the use of case studies, computerized management games, and consultant roles with small business firms. *Prerequisite:* senior standing.

10.468 Financial Decision Making (c 01.00)

Financial management, including cost of capital, capital budgeting, working capital management, and long-term financing. Emphasis on both theoretical and applied techniques through discussion and case study viewed from both the corporate user of funds and the investor as supplier. *Prerequisite:* 10.365 (Corporation Finance).

10.469 Investment Analysis (c 01.00)

Basic securities analysis and selection. Investment objectives. Methods of appraising corporate equity and debt securities. Investment timing, Dow Theory, dollar cost averaging, formula planning. Analysis of market fluctuations. Sources of information. *Prerequisite:* 10.365 (Corporation Finance).

10.490 Independent Project in Business Administration (c 00.25 through 02.00)

See Independent Reading Courses and Study Projects under General Curriculum Information.

10.491 Principles of Employee Relations (c 01.00)

Philosophy, operation of employee relations system in United States: principal economic, social, managerial factors involved in its operation in terms of management of personnel and labor management relations. *Prerequisite:* junior standing.

10.492 Labor Relations Principles (c 01.00)

Intensive analysis of the collective bargaining process, with emphasis on the historical, legal, economic, social, and behavioral aspects of union-management relationships in both the private and public sector. *Prerequisite:* 10.491 (Principles of Employee Relations).

10.493 Personnel Management Operations (c 01.00)

Techniques generally utilized (including computer applications) in personnel budgeting, manpower control, recruitment, performance rating, wage and salary administration. *Prerequisites:* 10.491 (Principles of Employee Relations).

11.300 Basic Marketing (c 01.00)

Role of marketing as a philosophy of modern business management; the inter-relationships among marketing, production, transportation and the total economy. With a macro-approach, it emphasizes social and economic aspects of marketing, and identifies prevailing concepts, functions, institutions, and terminology. Explains relationships among consumers, business and government. *Prerequisite:* 19.100 (Introduction to Economics).

11.401 Markets and Buyer Behavior (c 01.00)

Nature and measurement of markets for consumer and industrial goods and services. Market segmentation and market targeting. Factors influencing purchasing decision. Consumerism. *Prerequisite:* 11.300 (Basic Marketing).

11.402 Marketing Research (c 01.00)

Emphasis placed on the underlying scientific principles and processes that make marketing research an applied science. Information collection, interpretation, and presentation for shaping marketing objectives, policies, and planning. Role of more effective marketing of goods and services. *Prerequisite:* 69.202 (Basic Statistics) and 11.401 (Markets and Buyer Behavior).

11.403 Marketing Problems (c 01.00)

Role of marketing management in business. Practical applications of marketing thought and theory in decision-making for the marketplace, in-depth analysis of marketing problems. *Prerequisite:* 11.402 (Marketing Research) or permission.

11.404 Product Planning and Pricing (c 01.00)

Product development planning. Marketing strategy in introducing new products and services. Pricing decisions and implementation in marketing of products. Role of demand determination in pricing policies. Pricing in free marketplace. Government and pricing policies. *Prerequisite:* 11.401 (Markets and Buyer Behavior).

11.405 Distribution Systems (c 01.00)

Examination of marketing managerial issues and problems in distribution through the use of an integrated channel of distribution approach. Investigates problems involved in the relation in trade channels for goods and services, and the subsequent management of those channels for optimum efficiency. Viewpoints of manufacturer, wholesaler, and retailer. *Prerequisite:* 11.300 (Basic Marketing). Spring.

11.411 Advertising Principles (c 01.00)

Major promotional operations which comprise a firm's promotional "mix" including advertising, sales promotion, merchandising, public relations or institutional promotion, and personal selling; approached from an analytical and managerial point of view. Emphasis directed to processes of formulation of promotional strategies and policies, development of integrated promotional programs, and evaluation of promotional efforts. *Prerequisite:* 11.300 (Basic Marketing).

11.426 Fundamentals of International Business (c 01.00)

Survey of the ever changing nature, methods and extent of international business, and of the various environments within which it operates; socio-cultural, economic, legal, political, and financial. Important trends and vital current issues are examined against relevant background information presented in the texts and assigned readings. *Prerequisite:* 11.300 (Basic Marketing).

11.460 Institute on Property Management I (c 01.00)

Management of commercial, residential property. Rental values, neighborhood analysis, tenant selection, leasing, tenant and owner relationships. Final examination may be substituted for regular examination for Course No. 1 of the Institute of Real Estate Management.

11.461 Institute in Real Estate Appraisal VIII (c 00.50)

Official Study Course VIII of the American Institute of Real Estate Appraisers. Applied principles and techniques for the valuation of single family residential properties. Basic terminology and concepts, case studies. *Prerequisite:* basic real estate experience.

11.470 Urban Development (c 01.00)

Economic and other objectives in urban society. Community objectives and organization. Provision of public facilities through political process. Public welfare, private profit and business-government relations. Economic base and inter-industry analysis. City growth and structure. Applications of planning, programming and budgeting to management of privately owned real estate resources and to provision of public facilities. Relationship of urban problems to contemporary business.

11.471 Housing and Social Control (c 01.00)

Housing goals, problems, and programs. Real Estate ownership, interests, and social control. Limitation on private control by public authority and private control. Transfer of rights and encumbrances on rights. Use of private enterprises to meet housing needs. Operation of housing markets.

11.472 Residential Construction (c 01.00)

Multi-family, single-family, and factory-built modular housing construction. Site selection, land planning, economic analysis, zoning, building codes, construction techniques and materials, management and financing.

11.476 Real Estate Investment Strategy (c 01.00)

Investment objectives, risks and rewards. Resource characteristics and administration. Development decision and analysis, mortgage finance, cost and availability of funds, location analysis, property analysis and valuation. *Prerequisites:* 11.471 (Housing and Social Control) and 11.472 (Residential construction).

11.477 Real Estate Transactions (c 01.00)

Principles, practices of listing, selling, title, transfer. Drawing documents. Contracts, deeds, financing, other instruments. Ownership rights, liens, taxes, assessments, other claims on real property.

11.495 Management of Low and Moderate Income Housing (c 01.00)

Analysis of existing housing in the community with emphasis on subsidized housing, followed by study of communications and human relations between landlord and tenants, maintenance of physical facilities and administrative processes. Official course of The Institute of Real Estate Management.

12.462 Transportation and Logistics Distribution (c 01.00)

Spatial relations; economics of transportation service, location of population and industry, scope and pattern of markets, factors and principles of transportation; factors in design of logistics system for a firm, industry location, and role of transportation, inventory control, warehousing, material handling, communication and order processing in design and operation of efficient logistics systems which provide total control in terms of time and cost to meet required service standards in distribution. *Prerequisite:* 11.300 (Basic Marketing).

12.463 Transportation Policies (c 01.00)

Considers public policies in transportation; historical development of regulation; the regulatory process. Public investment in transportation—railroads, highways, air facilities, waterways, rapid transit. Problems of local transportation.

12.465 Physical Distribution (c 01.00)

Control of physical distribution of products from origin of supplies to final distribution to the consumer. Plant location theory, warehouse establishment and use, inventory control, materials handling. Role of transportation in distribution. Case studies in business logistics.

Graduate Courses

All courses listed below carry graduate credit. .500 level courses are open to graduate and qualified undergraduate students. Undergraduate students in .500 level courses receive one course unit for 3 or 4 semester hour credits. Courses at the .600 and .700 levels are open to graduate students only.

10.532 Advanced Income Taxes (s 03.00)

Advanced aspects of particular interest to accountants, lawyers. Special problems of federal income taxes, including estates, trusts, corporate and partnership liquidations, distributions, reorganizations, special transactions. Federal gift, estate taxes. *Prerequisite:* 10.431 (Fundamentals of Income Tax) or permission. Spring.

10.553 Business-Government Relations (s 03.00)

Government impact on business decisions. Government regulations, control and promotion

of business. Corporate political activity. Current and future issues in business-government relations. Guest lecturers. *Prerequisite:* permission.

10.590 Independent Reading Course in Business Administration (s 01.00 through 06.00)

See Independent Reading Courses and Study Projects under General Curriculum Information.

10.603 Managerial Accounting (s 03.00)

Fundamentals, with concentration on uses of accounting as a tool of management. Designed to give an understanding of strengths and limitations of accounting as means of providing information. Topics have been selected from spectrum of accounting which focus upon underlying conceptual framework, role of accounting as tool for planning and controlling the activities of the enterprise and usefulness and limitations of accounting data for evaluating the results of operations.

10.604 Business in its Social Environment (s 03.00)

Analysis of the firm in its social setting. History of business in its social environment. Relationship of business to the social, political and economic philosophies, institutions and groups which comprise its environment. Impact of its environment upon the present and future status of the firm.

10.605 Financial Management (s 03.00)

Rigorous examination of financial management theory viewed from both corporation as user of funds and investor as supplier of funds. Emphasis upon interdependency between security analysis and cost of funds to corporation; introduction to security analysis, cost of capital, capital budgeting, evaluation and selection of corporate assets, and portfolio problems for both the corporation and the investor. *Prerequisite:* 10.603 (Managerial Accounting).

10.606 Managerial Statistics (s 03.00)

A systematic treatment of methods of analysis and inference applied to managerial problems; use of computers. Free use of supervised laboratory available to review basic mathematical material.

10.607 Quantitative Methods (s 03.00)

Introduction to quantitative methods of decision-making and operations research; mathematical models; decision theory; use of computers. Free use of supervised laboratory workshop available to review basic mathematical material. *Prerequisite:* 10.606 (Managerial Statistics) or equivalent.

10.608 Behavior of Complex Organizations (s 03.00)

Covers that portion of organization theory which concerns the behavior of organizations themselves. Main topics are organizational goals and effectiveness, effects of technology, formal and informal organizational structure, management-decision processes, communication systems, organizational planning, control systems, intergroup conflict, and future developments in organizations. This course is the complement to 10.609, Human Behavior in Organizations.

10.609 Human Behavior in Organizations (s 03.00)

Covers that aspect of organization theory concerning the behavior of *persons* in organized settings. Specific topics include personality, values, motivation, and role behavior of individuals; supervision, leadership, and authority in work groups; and the structure and processes of informal groups. In addition to a theoretical treatment of these issues, the class will have opportunities to observe their own behavior through the use of experiential exercises. Recommended prior to 10.608, Behavior of Complex Organizations.

10.612 Business Economics (s 03.00)

Macro-economics analysis, study of the determinants of national income, output, employment and price levels. Covers national income accounting and classical as well as Keynesian economic models. Fiscal and monetary policy.

10.634 Systems Design and Installation (s 03.00)

Techniques of analyzing, designing accounting systems for effective managerial control. Adapting accounting procedures to organizations of various types and sizes. Demonstration of important machine methods. *Prerequisite:* 10.411 (Advanced Cost Accounting) or permission.

10.639 Controllership in Business (s 03.00)

Controller's functions. Emphasis on interpretation of accounting aspects of managerial problems, reporting. Role as staff member of management team. *Prerequisite:* 10.603 (Managerial Accounting).

10.642 Managerial Economics (s 03.00)

Fundamental analytical tools of economics applicable to decision-making. Research of empirical and theoretical studies, evaluation of their application to economic analysis in management. Recommend 10.442 (Business Economics) or 6 semester hours of economics and 10.641 (Business Forecasting) for Ph.D. candidates and M.B.A. candidates electing Managerial Analysis as comprehensive field.

10.665 Financial Statement Analysis (s 03.00)

Appraisal of prevailing techniques of statement analysis. Significance of "generally accepted accounting principles." Development of meaningful analytic methods from viewpoint of financial management. *Prerequisite:* 10.605 (Financial Management).

10.667 Working Capital Management (s 03.00)

Managerial knowledge of the money market from the viewpoint of the financial manager in meeting short-term requirements and investing temporarily excess idle funds; means of investing idle funds commensurate with risk and return; emphasis on the techniques used in management of corporate, short-term investment portfolio. *Prerequisite:* 10.605 (Financial Management).

10.668 Advanced Investment Analysis (s 03.00)

Critical evaluation of current methods of securities analysis and selection. Investment theories and timing. Portfolio construction and management. *Prerequisite:* 10.605 (Financial Management).

10.671 Commercial Banking Policies (s 03.00)

Factors determining management policies, services offered by individual banks. Internal: capital resources, market development, profitability of functions, relations to other banks. External: government regulation, economic conditions. For present and prospective bank officers. *Prerequisite:* 10.605 (Financial Management).

10.680 Regulation and Control of Business: Theory and Practice (s 03.00)

Theory and practice of government regulation and control of business. Antitrust, administrative enforcement and rule making. Impact of regulation and control on decision-making. Future trends in regulation and control. *Prerequisite:* 10.604 (Business in its Social Environment) or permission.

10.690 Independent Study Project in Business Administration (s 01.00 through 06.00)

See Independent Reading Courses and Study Projects under General Curriculum Information.

10.692 Collective Bargaining and the Public Interest (s 03.00)

Examination of classic and current theory of collective bargaining in terms of economic and political impact upon the public interest. *Prerequisite:* Permission of instructor.

10.694 Seminar in Employee Training and Development (s 03.00)

Analysis by individual or group research of current problems in employee development and training at all levels, with particular emphasis on middle management development. *Prerequisite:* permission of instructor.

10.695 Industrial Relations: The Legal Environment (s 03.00)

Survey of legal environment of the industrial relations system: the collective bargaining process in terms of governmental regulation. *Prerequisite:* permission of instructor.

10.697 Labor Relations Management (s 03.00)

Examination, by case studies, selected readings of management philosophy, strategy, tactics in collective bargaining; management's legal rights, responsibilities and impact of collective bargaining on management functions and employee relations. *Prerequisite:* 10.695 (Industrial Relations: The Legal Environment) or permission.

10.701 Seminar in Corporate Public Affairs (s 03.00)

The corporation in its political environment. Corporate political/community problems. The mission of the public affairs department and program. Washington and State Capitol representation. *Prerequisite:* 10.604 (Business in its Social Environment) or permission. Spring.

10.705 Seminar in Current Business-Government Relations Problems (s 03.00)

In-depth study of current problems involving business and government. Topics to be determined. Individual study, research. Emphasis on the impact of current problems on corporate-government relations. *Prerequisite:* 10.604 (Business in its Social Environment) or permission. Fall.

10.706 Seminar in Corporate-Government Policy (s 03.00)

Philosophy and practice of Business Decisions influenced by public policy. Emphasis on case problems. Reading and individual research into the in-depth analysis of the concepts and issues of private enterprise and public policy. *Prerequisite:* permission.

10.710 Contemporary Accounting Problems (s 03.00)

Nature of accounting principles and postulates. Consideration of major problems of income measurement and related problems of assets and equity valuation. *Prerequisite:* permission. Fall.

10.711 Seminar in Accounting Theory (s 03.00)

Development of accounting theory. Analysis of current accounting problems. Review of current literature. Required of M.B.A. and Ph.D. candidates taking Accounting Comprehensive Examination. *Prerequisite:* Permission. Spring.

10.755 Management of the Enterprise (s 03.00)

Application of theory and practice to simulated problems in general management. Involvement in a problem-solving environment is intended to integrate knowledge in various functional areas of business, and provides direct management experience. Also provides opportunities to study and experience the process of introducing planned organizational change. Various methods may be employed to simulate the management environment including case studies, computerized management games, and consultation experiences. *Prerequisite:* Completion of graduate core requirements, or permission of instructor.

10.765 Seminar in Finance (s 03.00)

Rigorous examination of current issues and recent developments in corporate financial management, investments, and commercial banking. Review of literature to cover total area of business finance. *Prerequisite:* permission of faculty.

10.791 Seminar in Personnel and Manpower Management (s 03.00)

Individual, group research in current problems, developments in personnel and manpower management. Required of all master's and doctoral candidates choosing industrial relations and/or personnel management as comprehensive examination field. *Prerequisite:* permission of faculty.

10.792 Seminar in Industrial Relations (s 03.00)

Individual, group research in current problems, developments in collective bargaining. Required of all master's and doctoral candidates choosing industrial relations and/or personnel management as comprehensive examination field. *Prerequisite:* permission of faculty.

10.795 Seminar in Manpower Management (s 03.00)

Use of selected case problems to develop integrated conceptual philosophy of manpower management role and function of manpower administrator in its application. Required of all master's and doctoral students selecting personnel management and/or industrial relations as comprehensive examination field. *Prerequisite:* permission of faculty.

11.561 Institute on Property Management II (s 03.00)

Advanced analysis of multi-unit apartments, office buildings, shopping centers. Legal tax, financing aspects. Regional analysis and urban redevelopment. Creative management. Final examination may be substituted for regular course examination for Course No. 2 of the Institute of Real Estate Management on payment of \$25 fee. *Prerequisite:* 11.460 or graduate standing.

11.563 Institute on Real Estate Appraisal Ia (s 03.00)

Official Study Course No. Ia of the American Institute of Real Estate Appraisers. Nature of real estate value; basic principles, methods and techniques. Satisfactory grade accepted by Appraisal Institute in lieu of required examination No. 1a. *Prerequisite:* satisfactory completion of one real estate course or at least one year equivalent experience and permission of program director or graduate standing.

11.564 Institute on Real Estate Appraisal Ib (s 03.00)

Official Study Course No. Ib of the American Institute of Real Estate Appraisers. Nature of the real estate value: income approach to value and capitalization. Satisfactory grade accepted by Appraisal Institute in lieu of required examination Ib. *Prerequisite:* 11.563 (Appraisal Ia) or passing AIREA Examination Ia.

11.565 Institute on Real Estate Appraisal II (s 03.00)

Case study Course II of the American Institute of Real Estate Appraisers. Urban properties: appraising procedures, capitalization techniques, case studies, problems. Credit applicable toward membership in the Institute. *Prerequisite:* 11.563 and 11.564 (Appraisal Ia and Ib), or passing AIREA Examination Ia and Ib.

11.566 Institute on Property Management IV (s 03.00)

Advanced analysis of office building. Developing, leasing, and management. Feasibility studies. Financing. Leasing techniques. Tenant suite development. Parking. Remodeling. Final examination may be substituted for regular course examination for Course IV of the Institute of Real Estate Management on payment of \$25 fee. *Prerequisite:* 11.460 or graduate standing, or permission.

11.571 Landlord-Tenant Relations in Low and Moderate Income Housing (s 03.00)

Study of the quality and quantity of housing and total living environment of families of low and moderate income and of the relationships among residents, owners, and managers.

11.572 Housing Low and Moderate Income Families (s 03.00)

National housing goals and needs. Federal low and moderate income housing program. Housing development process. Economic, social, legal, technological constraints. Roles of various decision makers.

11.578 Real Estate Law (s 03.00)

Legal aspects of real estate transactions for non-lawyers. Acquisition, encumbrance, transfer. Rights, obligations of parties. Survey of law, analysis of cases.

11.592 Internship in Urban and Real Estate Problems (s 01.00 through 06.00)

By arrangement with Director or Associate Director.

11.601 Marketing Management (s 03.00)

Introduction to advanced theory and systems-oriented analytical methodology required for effective marketing management decision-making. Viewpoint is that of marketing executive whose responsibility is coordination of objectives and resources of firm with opportunities existing in market, whose strategies and tactics relate to the basic administrative processes of analysis, organization, planning and control. Approach is analytical rather than descriptive, drawing heavily upon the disciplines of economics, behavioral science, and mathematics.

11.602 Consumer Behavior (s 03.00)

Examines various processes and factors which influence consumer motivation and behavior. Explores consumer decision-making processes and their marketing implications. *Prerequisite:* 11.601 (Marketing Management) or permission.

11.603 Industrial and Consumer Markets (s 03.00)

Covers nature and extent of markets for industrial and consumer goods and services; methods of anticipating and meeting industrial, governmental, institutional, and consumer needs; market targeting, development of marketing mixes. *Prerequisite:* 11.601 (Marketing Management) or permission.

11.604 Research for Marketing Management (s 03.00)

Emphasis is placed on the underlying scientific principles and processes that make marketing research an applied science. Information collection, interpretation, and presentation for shaping marketing objectives, policies, and planning. Emphasis is placed on the application of concepts, methods, and knowledge of the quantitative and behavioral disciplines. These learning objectives are facilitated through individual or group research projects. *Prerequisites:* 10.606 (Managerial Statistics), 11.602 (Consumer Behavior), and 11.603 (Industrial and Consumer Markets).

11.605 Promotion Management (s 03.00)

Problems involved in the management of promotional operations in the firm including advertising, sales promotion, merchandising, personal selling, public relations, and institutional promotion—individually, and as integrated into strategically coordinated promotional programs—are approached from a managerial point of view. The course is considered foundational for students seeking careers in sales, advertising or public relations. *Prerequisite:* 11.601 (Marketing Management) or permission. Fall.

11.606 Distribution Channels Management (s 03.00)

Examination of marketing managerial issues and problems in distribution through the use of an integrated channel of distribution approach. Investigation of problems involved in the relation of trade channels for goods and services, and the subsequent management of those channels for optimum efficiency. Viewpoints of manufacturer, wholesaler, and retailer are presented. Emphasis is placed on individual projects related to the content of the course. *Prerequisite:* 11.603 (Industrial and Consumer Markets). Fall.

11.607 Problems in Pricing (s 03.00)

Product development and planning. Cost analysis. Pricing policies and practices in the marketing of goods and services. New product introductions and life cycle planning. Product modification. Planning the product line. *Prerequisite:* 11.603 (Industrial and Consumer Markets). Spring.

11.627 Export/Import Management (s 03.00)

International trade organizations, marketing information, relations with governments (tariffs, permits, trade centers, etc.), getting the order, physical distribution, insurance, costing and pricing, collecting. Fall.

11.628 International Marketing (s 03.00)

Origins and development of marketing; modern advanced-country technology; international deployment of market research, physical distribution management, sales personnel selection, training and supervision methods; media selection; advertising themes and methods of presentation; planning and projective budgeting. Fall.

11.629 The Multinational Firm (s 03.00)

History, legal environment, organization and control, finance, marketing, production and procurement, research and development, personnel, business-government and business-public relations. Spring.

11.640 Research Methods in Business (s 03.00)

The principles of acquiring and processing data and presenting information. A variety of research methods will be surveyed to analyze form of hypothesis development, methods of experimental design and approaches to data reduction and interpretation. Applications to data analysis of business problems. Students will design, process and evaluate research proposals. *Prerequisite:* satisfactory completion of all first year M.B.A. courses or equivalents.

11.683 Real Estate Market Analysis (s 03.00)

Analysis of real estate demand, supply in a local market. Sources of information. Analysis of population, changing city and housing markets. Forecasting. Spring only.

11.684 Mortgage Banking (s 03.00)

Financing methods. Sources of funds, mortgage and capital markets, federal agencies. Direct lending. Required of students electing an M.B.A. field in real estate and urban development planning. *Prerequisite:* 10.605 (Financial Management).

11.685 Land Planning and Use (s 03.00)

Land values and utilization. Location problems of consumers, businesses, industries, households. Changes in land use patterns produced by market forces and public policies.

11.701 Seminar in Marketing Theory (s 03.00)

This is the capstone course for the advanced degree in marketing and is intended to ensure a full understanding of the concepts and theories of marketing and their interrelations in application; a knowledge of current research and advances in the field; and to develop skill in critical evaluation of the concepts and theories and their application in solving business problems. *Prerequisite:* permission of faculty.

11.726 Seminar in International Business (s 03.00)

Actual experiences of identified companies (to permit follow-up) and of public bodies (Port Authorities, planning commissions, tourist promotion associations). *Prerequisite:* 11.629 (The Multinational Firm). Spring.

11.776 Seminar in Real Estate Administration (s 03.00)

Capstone seminar dealing with problems of managing real estate resources and related business enterprises. Management of urban development process and environment. Cases and/or computerized urban system model. Required of students electing an M.B.A. field in real estate and urban development planning.

11.778 Seminar in Land Planning and Use (s 03.00)

Land planning, use from interdisciplinary point of view. Roles of land economics, government planning, private sector. Urban renewal, new towns. Metropolitan problems. Required of students electing an M.B.A. field in real estate and urban development planning. *Prerequisite:* permission of area studies director. Spring.

11.779 Seminar in Housing and Urban Development (s 03.00)

Housing goals, federal policy, local programs, role of private enterprise. Sources, uses of development capital, inter-regional flow of funds, mortgage market problems, Technology; housing for low-income families; information, data systems; infrastructure. *Prerequisite:* permission of area studies director.

11.780 Doctoral Seminar in Literature of Real Estate and Land Planning (s 03.00)

Reading, analysis of major contributions to philosophy, methodology, concepts. Group analysis, seminar discussion, individual research projects. Required of doctoral candidates; open to superior M.B.A. candidates on permission of instructor. See area studies director.

11.792 Seminar in Management Planning and Control (s 03.00)

Concepts and requirements of planning and control systems. Analytical tools required for output-oriented program structure. Application of measurements to management information systems with emphasis on interdependence between quantitative and behavioral fields. Comparison between profit and public oriented budgetary processes. *Prerequisite:* satisfactory completion of all M.B.A. first-year requirements or equivalents.

11.794 Simulation and Gaming (s 03.00)

Models and model building; simulations of continuous and discrete systems; business games. *Prerequisites:* satisfactory completion of all first-year M.B.A. courses or equivalents.

11.795 Seminar in Operations Analysis (s 03.00)

Problems of practical application of management science techniques. Students will be expected to formulate research projects. Supervised research and discussion. *Prerequisite:* permission of area studies director.

11.796 Doctoral Literature Seminar in Operations Analysis (s 03.00)

Discussion of current literature in Operations Analysis field. Emphasis on quantitative techniques applicable to interdisciplinary studies and their application in fields of interest to management. *Prerequisite:* permission. Restricted to doctoral candidates.

12.661 Principles and Problems of Transportation (s 03.00)

Relation of transportation to economics, political and social organization and to national development. Economic theory as applied to transportation. Regulation and national transportation policy.

12.662 Transportation Policy Administration (s 03.00)

The administration of public policies in transportation. The regulatory agencies—state and federal; the problem of multi-functions. Public investment—analysis and administration; functional and mission approaches. The usefulness of transportation research in public sector.

12.663 International Transportation Problems (s 03.00)

Practices and problems of international transportation—air and maritime, Civil Aeronautics Board and Federal Maritime Commission authority and responsibilities; Federal Maritime Administration. International agreements; operating rights; five freedoms; freedom of the sea. The role of U.S. flag carriers.

12.665 Physical Distribution Management (s 03.00)

The management of product handling and distribution in industrial and merchandising firms. Theory and quantitative analysis of distribution. "Pipeline" costs; choice of carrier. Case studies of distribution management.

12.667 Transportation Analysis and Planning (s 03.00)

Procedures for analysis of public sector investment in transportation; transportation modeling techniques; benefit-cost analysis. Problems and case studies of transportation planning. Approaches to transportation investment evaluation.

12.672 Urban Transportation (s 03.00)

Development and problems of land use; place in metropolitan planning; adjustment to changes in population, industry, social life; financing; local transit authorities; interstate and regional compacts; rates; service; traffic. *Prerequisite:* 12.661 (Principles and Problems of Transportation) or permission.

12.762 Seminar in Transportation (s 03.00)

Analysis of transportation problems through supervised research projects. Both domestic and international transportation. Urban transportation. *Prerequisite:* at least 6 hours of graduate credits in Transportation, and permission. Spring.

12.799 Doctoral Dissertation Seminar (s 03.00 through 12.00)

College of Continuing Education

Dean	Nathan Brodsky
Assistant Dean, Off-Campus Programs and STRIDE	Michael J. Orlando
Director, Off-Campus Programs	Irving O. Barker
Director, English Language Institute	Robert P. Fox
Director, Public Relations Programs	Jack Seigle
Director, Pride/American University Institute	Gary R. Weaver
Director, STRIDE	Judy Newhouser

The mission of THE COLLEGE OF CONTINUING EDUCATION is to serve the educational needs of adults who seek professional or personal advancement through full- or part-time study.

Some adults enroll in the College of Continuing Education to complete a degree. Many students take courses to meet professional requirements of their career field, while others take courses for personal enrichment.

The College of Continuing Education offers a wide range of academic programs geared to meet highly diversified student needs. These programs include degrees and certificates both on an undergraduate and graduate level, in-service training, and research programs. The certificate programs are offered for specialized preparation in a particular career field. Under certain conditions certificate work may be applied towards the awarding of a degree.

Continuing Education

Correspondence Directory: Nathan Brodsky, *Dean*

Michael J. Orlando, *Assistant Dean, Off-Campus Programs and STRIDE*

Irving O. Barker, *Director, Off-Campus Programs*

Robert P. Fox, *Director, English Language Institute*

Jack Seigle, *Director, Public Relations Programs*

Gary R. Weaver, *Director, Pride/American University Institute*

Judy Newhouser, *Director, STRIDE*

Degree Programs

Associate in General Studies

Social Sciences

Bachelor of Science in General Studies

Social Science Option

Mobility Option

Master of Science in Public Relations

Programs of Study

Applied Economics: Certificate

Church Management: Courses

English Language Institute: Certificate

General Studies Degree Programs: Associate in General Studies; Bachelor of Science in General Studies

Pride/AU Institute: Certificate

Public Relations and Public Information Systems: Graduate Certificate in Government Information; Graduate Certificate in Public Relations; Master of Science in Public Relations

Radio and Newspaper Instruction: Courses

Science and Technology: Policy and Administration: Graduate Certificate

Technology and Administration: Undergraduate Certificate in Technology and Management; Graduate Certificate in Computer Systems Applications, Environmental Systems Management, Management Information Systems, Operations Research, Research and Development, Scientific and Technical Information Systems

Urban Affairs: Certificate

Note: The students of The College of Continuing Education utilize the course offerings of the entire University. For course descriptions not listed under the following programs of study, consult the Courses of Instruction listings under the different teaching units in the University.

Mobility Option for Undergraduate Degree Program

The College of Continuing Education offers an opportunity for highly mobile students to take advantage of flexible residency requirements in order to complete undergraduate degrees at locations distant from The American University campus. Interested students must obtain permission of the Dean of The College of Continuing Education prior to initial acceptance to the program.

Full-time Faculty

Professor: Gabriel D. Ofiesh

Associate Professor: Robert P. Fox, Mary Ann Hood, Gary R. Weaver, Jack C. Seigle

Assistant Professor: Dana Czapanskiy, Edward C. Smith

Instructor: David L. Stanley, Paul H. Geffert

Honors

DEAN's HONORS LIST

College of Continuing Education undergraduate students currently enrolled with at least two full courses and having had at least four courses at The American University prior to the current semester, and with no incomplete grades outstanding, who earned an average of 3.50 (grade point average) or higher in the immediately preceding session will be qualified for the Dean's List.

GRADUATION HONORS

Undergraduate students are eligible to graduate with honors provided they have completed at least one-half of all course work required for their degree at The American University and have achieved the requisite grade point average. The average is based on courses taken at the University only. Pass-Fail courses will not be computed in the average. Undergraduate honors and the average required are as follows: *Summa Cum Laude*, 3.90 or higher; *Magna Cum Laude*, 3.75 to 3.89; *Cum Laude*, 3.50 to 3.749.

Applied Economics Program

The Applied Economics Program is designed to serve the professional needs of those planning a career in the field of applied economics and those who are seeking to further their education in their career field. The primary thrust of the program is in the application of economic theory to the analysis of current problems.

Undergraduate Certificate in Applied Economics

This certificate program offers a thorough background in economics for those seeking competence in the field of applied economics. Credit is applicable to University undergraduate degree programs.

Core Theory Courses

- 19.100 Introduction to Economics
- 19.300 Price Theory and Its History
- 19.301 Income Theory and Its History
- 19.302 Alternative Economic Theories

Quantitative Tools

- 19.305 Introduction to Quantitative Economics
- 19.310 Introduction to Econometrics
- or
- 69.202 Basic Statistics

Area Concentration (two courses, one from each group)

I. DOMESTIC

- 19.304 Labor Economics
- 19.309 Public Economics
- 19.315 Urban Political Economy

II. INTERNATIONAL

- 19.307 Political Economy of Development
- 19.311 International Economics

Electives (two courses)

- 19.396 Selected Topics: Economics of Education
- 19.396 Selected Topics: Environmental Economics
- 19.396 Selected Topics: Economics of Health Care
- 19.396 Selected Topics: Government and the Multinational Corporation
- 19.396 Selected Topics: Government Regulation and the Economy
- 19.396 Selected Topics: Agricultural Economics
- 19.510 Cost Benefit Analysis

Seminar or Research (one course)

- 19.396 Selected Topics: Seminar in National Economic Policy
- or
- 19.490 Independent Study Project in Economics

Graduate Certificate in Applied Economics

This program offers a variety of courses to college graduates who wish to increase their proficiency in their field, but are uncertain about pursuing a graduate degree program. Credit is applicable to the Master of Arts program in Applied Economics offered by the Department of Economics in the College of Arts and Sciences.

Foundation Courses

(Prerequisites to the certificate program may be waived in lieu of prior education or experience. No graduate credit granted for these courses.)

- 19.100 Introduction to Economics
- 19.300 Price Theory and Its History
- 19.301 Income Theory and Its History
- or
- 19.603 Introduction to Economic Theory (may be substituted for 19.300 and 19.301)
- 19.310 Introduction to Econometrics
- or
- 69.202 Basic Statistics

General Requirements (nine semester hours)

- 19.500 Price Theory
- 19.501 Income Theory I
- 19.522 Econometrics

Field Courses (three semester hours)

- 19.523 Econometrics II
- 19.532 Monetary Theory and Policy
- 19.541 Public Economics
- 19.544 Survey of Urban Political Economy
- 19.551 International Economics Theory
- 19.560 Economic Development
- 19.571 Labor Economics Theory

Electives (three semester hours)

- 19.510 Cost-Benefit Analysis
- 19.521 Mathematical Economic Analysis
- 19.596 Selected Topics: Agricultural Economics
- 19.596 Selected Topics: Economics of Human Resources: Manpower Development and Utilization
- 19.596 Selected Topics: Economics of Education
- 19.596 Selected Topics: Economics of Health Care
- 19.596 Selected Topics: Costs and Benefits of Economic Growth
- 19.596 Selected Topics: Environmental Economics
- 19.596 Selected Topics: Workers Self-Management and Management-Labor Relations
- 19.596 Selected Topics: Government and the Multinational Corporation
- 10.642 Managerial Economics
- 12.661 Principles and Problems of Transportation
- 19.785 Seminar in Mathematical Economics

Master of Arts in Applied Economics

The College of Continuing Education in cooperation with the Department of Economics of the College of Arts and Sciences offers qualified adults the opportunity to pursue this advanced study in the field of applied economics.

Program description and course requirements are given under the Department of Economics, College of Arts and Sciences.

Courses of Instruction

See course listing under the Department of Economics, College of Arts and Sciences.

Church Management**Courses of Instruction**

Students of Wesley Theological Seminary and of Howard University School of Religion may take Church Management courses for which they are qualified and which are appropriate to

their degree programs, without additional cost, subject to approval of the student's faculty advisor and Mr. Clyde W. Humphrey. For further information, call 686-2500.

Graduate Courses

All courses listed below carry graduate credit. .500 level courses are open to graduate and qualified undergraduate students. Undergraduate students in .500 level courses receive one course unit for 3 or 4 semester credit hours. Courses at the .600 and .700 levels are open to graduate students only.

Graduate level course values are expressed as *semester credit hours* according to the following decimal notations: (s 01.00) = 1 semester hour; (s 02.00) = 2 semester hours; (s 03.00) = 3 semester hours; etc. There are no fractional semester credit hours.

72.539 Church Program Development (s 03.00)

Basic concepts of management and their application in designing action programs to accomplish congregational purposes, objectives, goals. Fact-finding, problem identification forecasting, policy-making, and planning.

72.546 Managing Church Financial Resources (s 03.00)

Systematic approaches to obtaining, protecting, and using monetary resources for churches and related organizations. Stewardship applied through budgeting, fund raising, purchasing, and accounting.

72.547 Church Family Financial Planning (s 03.00)

Assistance to religious leaders in planning their own family financial affairs and in helping them qualify to teach groups, counsel individuals with problems of family finance.

72.548 Church Property Management (s 03.00)

Acquiring, using, maintaining, protecting real estate, equipment for religious purposes. Legal considerations; tax obligations. For pastors, property managers, and others responsible for administering physical facilities.

72.549 Church Office Services (s 03.00)

Functional approach to office planning and staffing, housing and equipping, communicating and scheduling, recording and reporting. Case problems to develop and integrate administrative skills.

72.550 Personnel Relations for Religious Organizations (s 02.00)

Responsible stewardship of human resources. Determining and describing staff positions; enlisting, assigning, and training staff personnel, both volunteers and employees; developing and maintaining staff morale.

72.551 Church Management: Selected Topics (s 02.00)

Observations, field studies, conferences, shared experiences to explore significant subject areas not covered adequately in other courses. Varying themes announced each session. May be repeated if different topics are covered. Topics selected from: accounting methods, basic concepts, effective communications, estate planning, food services, group procedures, information systems, insurance programs, legal environment, program budgeting, public relations, systematic purchasing, and tax problems.

72.552 Church Management Internship I (s 03.00)

Correlation of faculty-supervised work experience and seminar sessions, to apply previous studies, develop comprehensive philosophy. Practical research, evaluation, and reports. *Prerequisite*: six credits in church management or permission.

72.553 Church Management Internship II (s 03.00)

Scheduled field-work assignments and seminar sessions, primarily for students preparing for religious career service as professional directors and ministers of management. An applied research project is completed and reported as if for publication. *Prerequisite*: 72.552 or permission.

72.554 Church Program Promotion (s 02.00)

Management strategy that churches and related organizations may use effectively in seeking

acceptance of and identification with their purposes, objectives, goals, accomplishments, potentialities, and needs.

72.746 Seminar in Religious Organization Management (s 03.00)

Individual research on a selected category of related organizations, with varying selections each session. Categories available: religious congregations and judicatories; church-related camps and assembly centers, denominational junior colleges; church-related community service agencies. May be repeated for credit if different category is covered.

For those who cannot participate in the foregoing courses on a full semester basis, the Center for Church Management offers a series of non-credit institutes the subject matter of which is substantially equivalent to that of 72.545, 72.546, 72.547, 72.548, 72.549, and 72.550.

For additional courses related to church management, see catalogs of Wesley Theological Seminary or of Howard University School of Religion.

English Language Institute

The English Language Institute offers intensive and semi-intensive courses in English as a foreign language, and review and advanced-level courses in English language topics for native speakers of English.

For details concerning fees and course dates and for application, contact:

English Language Institute

203 McKinley Building

The American University

Washington, D.C., 20016

Telephone: 686-2197

Note: Admission for foreign students to all English Workshops requires application through the English Language Institute, Room 203, McKinley Building. Application and testing fee is \$15.

Fall and Spring Semesters

INTENSIVE COURSES (20–25 hours per week)

- 74.110 English Workshop I: Intensive Basic English (2 course units)
- 74.120 English Workshop II: Intensive Intermediate English (2 course units)
- 74.130 English Workshop III: Intensive High-Intermediate English (2 course units)

SEMI-INTENSIVE (15 hours per week)

- 74.140 English Workshop IV: Semi-Intensive Advanced English (1¼ course units)
- 74.160 Evening English Workshop (1 course unit)
- 74.170 Saturday English Workshop (¼ course unit)

Summer Sessions

INTENSIVE COURSES (25–30 hours per week)

- 74.111 Summer English Workshop I: Intensive Basic English (1¼ course units)
- 74.121 Summer English Workshop II: Intensive Intermediate English (1¼ course units)
- 74.131 Summer English Workshop III: Intensive High-Intermediate English (1¼ course units)
- 74.141 Summer English Workshop IV: Intensive Advanced English (1¼ course units)

SEMI-INTENSIVE COURSES (15–17 hours per week)

- 74.151 Summer English Workshop V: Semi-Intensive Advanced English (1 course unit)
- 74.161 Summer Evening English Workshop (¾ course unit)

Courses of Instruction

Undergraduate level course values are expressed as course units according to the following decimal notations: (c 00.25) = ¼ course unit; (c 00.50) = ½ course unit; (c 00.75) = ¾ course unit; (c 01.00) = 1 course unit; (c 01.50) = 1½ course units; etc.

Graduate level course values are expressed as semester credit hours according to the following decimal notations: (s 01.00) = 1 semester hour; (s 02.00) = 2 semester hours; (s 03.00) = 3 semester hours; etc. There are no fractional semester credit hours.

Undergraduate Courses

74.110 English Workshop I: Intensive Basic English (For Foreign Students) (c 02.00)

A course in basic English for students with little or no knowledge of English. The main emphasis of the course is on oral English, and it includes intensive practice of English grammar and pronunciation. Offered fall, spring.

74.111 Summer English Workshop I: Intensive Basic English (For Foreign Students) (c 01.25)

See description for 74.110. Offered summer.

74.120 English Workshop II: Intensive Intermediate English (For Foreign Students) (c 02.00)

This course is designed for intermediate students of English. It emphasizes pronunciation and the more complex structures of English, as well as the development of basic reading and writing skills. Offered fall, spring.

74.121 Summer English Workshop II: Intensive Intermediate English (For Foreign Students) (c 01.25)

See description for 74.120. Offered summer.

74.130 English Workshop III: Intensive High-Intermediate English (For Foreign Students) (c 02.00)

An intensive course in English for more advanced students; equal emphasis on reading, writing, speaking, and listening. Offered fall, spring.

74.131 Summer English Workshop III: Intensive High-Intermediate English (For Foreign Students) (c 01.25)

See description for 74.130. Offered summer.

74.140 English Workshop IV: Semi-Intensive Advanced English (For Foreign Students) (c 01.25)

A semi-intensive course in English for advanced students: emphasis on mastery of the pronunciation, grammatical structures, and writing features of English; advanced reading selections for increased comprehension and speed. Offered fall, spring.

74.141 Summer English Workshop IV: Intensive Advanced English (For Foreign Students) (c 01.25)

An intensive course in English for advanced students: emphasis on mastery of the pronunciation, grammatical structures, and writing features of English; advanced reading selections for increased comprehension and speed. Offered summer.

74.151 Summer English Workshop V: Semi-Intensive Advanced English (For Foreign Students) (c 01.00)

See description for 74.140. Offered summer.

74.160 Evening English Workshop (For Foreign Students) (c 01.00)

Semi-intensive, intermediate and advanced level courses with equal emphasis on speaking, listening, and reading skills; some attention to development of writing skills. Offered fall, spring.

74.161 Summer Evening English Workshop (For Foreign Students) (c 00.75)

Semi-intensive, beginning, intermediate, and advanced level courses with equal emphasis on speaking, listening, and reading skills; some attention to development of writing skills. Offered in the summer.

74.170 Saturday English Workshop (For Foreign Students) (c 00.25)

Intermediate level course in English. Equal emphasis on speaking, listening, and reading skills;

some attention to development of writing skills. Language laboratory practice included. Offered fall, spring.

74.190 English Workshop (c 01.00)

A review course emphasizing the fundamentals of grammar and the improvement of reading and writing skills. Successful completion of this course does not fulfill the University requirement in English. Admission by placement test only.

74.200 Composition and Reading I (For Foreign Students) (c 01.00)

Foreign students whose competence in English makes them eligible for college level work are assigned to this section so that attention can be given to their special language problems. The emphasis in this course is on reading and writing.

74.201 Composition and Reading II (For Foreign Students) (c 01.00)

A continuation of 74.200; emphasis is on literary and research techniques.

74.390 Independent Reading Course in English (c 00.25 through 02.00)

See Independent Reading Courses and Study Projects under General Curriculum Information.

74.396 Selected Topics in English for Foreign Students (c 01.00)

Consult the fall and spring *Schedule of Classes* bulletins for specific topics.

74.490 Independent Study Project in English (c 00.25 through 02.00)

See Independent Reading Courses and Study Projects under General Curriculum Information. Supervised study project in subject matter chosen by the student in consultation with an instructor.

Graduate Courses

All courses listed below carry graduate credit. .500 level courses are open to graduate and qualified undergraduate students. Undergraduate students in .500 level courses receive one course unit for 3 or 4 semester hour credits. Courses at the .600 and .700 levels are open to graduate students only.

74.500 Reading and Composition for Graduate Students I (s 03.00)

Restricted to graduate foreign students. The emphasis is on library and research techniques and methods of technical writing.

74.501 Reading and Composition for Graduate Students II (s 03.00)

Continuation of 74.500 with emphasis on writing a research paper.

74.590 Independent Reading Course in English (s 01.00 through 06.00)

See Independent Reading Courses and Study Projects under General Curriculum Information.

74.596 Selected Topics in English (s 03.00)

Courses for native speakers of English. Emphasis on practical concerns such as social dialects.

74.690 Independent Study Project in English (s 01.00 through 06.00)

See Independent Reading Courses and Study Projects under General Curriculum Information.

74.696 Selected Topics in English for Foreign Students (s 03.00)

Consult the fall and spring *Schedule of Classes* bulletins for specific topics.

General Studies Degree Programs

Associate Degree in General Studies

University Requirements (two course units)

23.100 Composition and Reading I

23.101 Composition and Reading II

Electives (14 course units)

The student pursuing the Associate in General Studies is free to select any fourteen courses offered by The American University for which he or she is qualified. To gain approval for these courses the student must first consult with an academic advisor in The College of Continuing Education.

Bachelor of Science in General Studies**Mobility Option**

The mobility option is designed for those persons whose study may be interrupted by physical re-location. It includes flexible residency requirements, provides special counseling services, and ensures quality education without compromise of standards. It enables the student to meet residency requirements on or off campus.

The mobility option is particularly well suited to the needs of military persons, women whose education has been interrupted, business persons who relocate frequently and those who can pursue their educational goals only on a part-time basis. The mobility option is not a substitute for a full-time degree program, but it is a viable alternative.

Admission Requirements

The admission requirements outlined under Admissions Information in this publication apply to the Bachelor of Science in General Studies, mobility option. A candidate should have a high school diploma or its equivalent. Additional information on admission procedures and requirements is available.

Academic Degree Major Concentration

Planned areas of major concentration are offered in anthropology, business administration, economics, government and political science, history, international relations, philosophy and religion, psychology, sociology, and technology of management.

Requirements

The minimum requirements for the Bachelor of Science in General Studies, mobility option, are 32 course units. Eight course units must be completed at The American University in order to satisfy academic residency and a major concentration in the primary area of study. These courses may be completed at any time during the student's program.

A General Outline of the Bachelor of Science in General Studies*UNIVERSITY REQUIREMENTS* (two course units)

- 23.100 Composition and Reading I
- 23.101 Composition and Reading II

AREA OF DEGREE MAJOR CONCENTRATION (15 course units)

Option I

- Primary Major Area (nine course units)
- Secondary Area I (three course units)
- Secondary Area II (three course units)

Option II

- Primary Major Area (15 course units)

Outlines of specific academic programs are available upon request.

RELATED COURSE REQUIREMENTS (five course units)

- Humanities or Social Science (five course units)
- and
- Mathematics and/or Science (two course units)

ELECTIVES (10 course units)*RESIDENCY REQUIREMENTS* (eight course units)

- Six of the eight course units must be in the primary major area.

Social Science Option

The Bachelor of Science in General Studies, social science option, is designed for those seeking a flexible program which offers a diverse, yet solid degree major concentration in several of the social sciences. The degree is closely related to the mobility option, but it is intended for students who will be geographically stable in the metropolitan Washington area.

Requirements

The minimum requirement for the Bachelor of Science in General Studies with the social sciences option is the completion of 32 course units.

University Requirements (two course units)

23.100 Composition and Reading I

23.101 Composition and Reading II

Departmental Requirements (15 course units)

Three course units each in *three* of the following fields (plus a minimum of six course units of upper level work in one of the elected social science areas): anthropology, economics, government, history, international relations, philosophy and religion, political science, psychology, sociology, technology of management.

Related Courses (five course units)

Humanities Electives (three course units)

Mathematics and/or Science (two course units)

Electives (10 course units)

Pride/American University Institute

The Pride/American University Institute offers a ten course unit Undergraduate Certificate in Community Development, and a sixteen course unit Associate Degree in General Studies through the College of Continuing Education. The institute brings together the resources of an urban university and established community organizations to provide an academic/scholarship program for qualifying residents of the metropolitan Washington area.

Admission to the program is determined by financial need and a series of basic academic skills tests. Required courses are designed to meet the needs of the student who has been out of school for a number of years, while advanced courses focus on various academic areas as they relate to the urban resident. All courses are fully accredited and open to all University students.

Required Courses

71.100 Language Skills

71.101 Communications I

71.102 Communications II

*71.105 Mathematical Skills

*71.106 Introduction to Academic Discipline

*71.108 Introduction to the Social Sciences

71.109 Study Skills/Orientation

* May be waived at the discretion of the academic counselor upon analysis of test results.

Advanced Courses

71.103 Philosophy of Communication: The Essay

71.104 Philosophy of Communication: Critical Reading and Training

71.110 Fabric of Social Structure: Psychology I

71.111 Fabric of Social Structure: Psychology II

71.112 Fabric of Social Structure: Economics I

71.113 Fabric of Social Structure: Economics II

71.114 Fabric of Social Structure: Sociology I

71.115 Fabric of Social Structure: Sociology II

71.201 Black Cultural Heritage

71.202 Social Dynamics

71.210 Accounting Principles I

- 71.211 Salesmanship
- 71.212 Accounting Principles II
- 71.213 Accounting Principles III
- 71.220 The Educational Institution
- 71.221 Law, Repression, and the Community
- 71.222 Community Organization
- 71.223 Political Man and Society
- 71.224 Development of Effective Oral Communication I
- 71.225 Development of Effective Oral Communication II
- 71.230 Consumer Education
- 71.231 Lay Advocacy
- 71.232 Principles of Counseling
- 71.233 Techniques of Management
- 71.440 Day Care Administration
- 71.441 Child Psychology: Day Care Application
- 71.442 Education in Day Care Schools
- 71.443 Day Care Health Programs
- 71.390 Independent Reading Course
- 71.396 Selected Topics (Non-Recurring)
- 71.490 Independent Study Project
- 71.491 Internship

Courses of Instruction

Undergraduate level course values are expressed as *course units* according to the following decimal notations: (c 00.25) = $\frac{1}{4}$ course unit; (c 00.50) = $\frac{1}{2}$ course unit; (c 00.75) = $\frac{3}{4}$ course unit; (c 01.00) = 1 course unit; (c 01.50) = $1\frac{1}{2}$ course units; etc.

Graduate level course values are expressed as *semester credit hours* according to the following decimal notations: (s 01.00) = 1 semester hour; (s 02.00) = 2 semester hours; (s 03.00) = 3 semester hours; etc. There are no fractional semester credit hours.

Undergraduate Courses

71.100 Language Skills (c 01.00)

Provides students with basic language art skills, such as spelling, grammar, etc. Instruction is individual and intensive. It is recommended that students register for this course on a pass/fail basis.

71.101 Communications I (c 01.00)

Objective is to teach writing skills, particularly expository prose, and the analyzation and criticism of fiction; also, to make the student conscious of his own prose style, its diction, sentence structure, organization, and tone. Fulfills University English requirement 23.100.

71.102 Communications II (c 01.00)

Advanced composition analysis of fiction and how to write research paper. Fulfills University English requirement 23.101.

71.103 Philosophy of Communication: The Essay (c 01.00)

Introduction to rudiments of effective essay writing. Assignments range from expository to rhetorical to poetic.

71.104 Philosophy of Communication: Critical Reading and Thinking (c 01.00)

Involves conscious awareness of what really happens between an author and his reader in the highly complex process of reading. Students do close analysis of scores of essays and several demanding books.

71.105 Mathematical Skills (c 01.00)

Provides necessary fundamentals of math to allow student to deal with simple math functions encountered in pursuing the various related fields.

71.106 Introduction to Academic Discipline (c 01.00)

Students are introduced to the tools they will need to master in order that they may "learn how to learn" and how to more effectively transmit their knowledge to others.

71.108 Introduction to the Social Sciences (c 01.00)

An issue-oriented, interdisciplinary course designed to introduce students to the social sciences and their application and approach to problems which would be of concern to the inner-city community.

71.109 Study Skills/Orientation (c 01.00)

The purpose of this course is to enrich the study skills of the entering first semester student while orienting him or her to the University as a resource for intellectual and personal growth.

71.110 Fabric of Social Structure: Psychology I (c 01.00)

Introductory psychology, with cross-cultural emphasis utilizing commonplace experience of the students. Social and abnormal psychology, development theory, and psychology of the black experience.

71.111 Fabric of Social Structure: Psychology II (c 01.00)

Continuation of 71.110, with social psychology emphasis.

71.112 Fabric of Social Structure: Economics I (c 01.00)

Introductory survey of economics focusing on economic philosophy, generally, and the economic environment of the center city, specifically.

71.113 Fabric of Social Structure: Economics II (c 01.00)

Continuation of 71.112.

71.114 Fabric of Social Structure: Sociology I (c 01.00)

Introductory survey of sociology focusing on the societal institutions that serve or fail to serve the central city.

71.115 Fabric of Social Structure: Sociology II (c 01.00)

Continuation of 71.114.

71.201 Black Cultural Heritage (c 01.00)

Emphasizes historical, literary, musical, artistic, and scientific contributions of Black Americans.

71.202 Social Dynamics (c 01.00)

Stress on sociology of inner-city community with reference to social movements and institutions, urban problems, law enforcement, and community development.

71.210 Accounting Principles I (c 01.00)

Basic techniques of recordkeeping and accounting.

71.211 Salesmanship (c 01.00)

Examines techniques of salesmanship, marketing as they relate to inner-city economic development and creation of a relevant and effective sales force.

71.212 Accounting Principles II (c 01.00)

Continuation of 71.210, Accounting Principles I.

71.213 Accounting Principles III (c 01.00)

Continuation of 71.212, Accounting Principles II.

71.220 The Educational Institution (c 01.00)

Awareness of existing structures of education in public and private elementary, secondary, and university institutions in urban areas, with emphasis on minority education.

71.221 Law, Repression and the Community (c 01.00)

The police department as an institution and law as it relates to the inner-city resident.

71.222 Community Organization (c 01.00)

Techniques and principles of community organization and practical application as it relates to minority community.

71.223 Political Man and Society (c 01.00)

Political processes and their relationship to conflict and cross-cultural interaction.

71.224 Development of Effective Oral Communication I (c 01.00)

This course is designed to improve the quality and effectiveness of oral communication by way of intensive skill development combined with the study of selected topics of contemporary interest. The ultimate goal of the course is to encourage the formation and application of analytical skills, and to enhance the development of effective oral communication techniques.

71.225 Development of Effective Oral Communication II (c 01.00)

Continuation of 71.224, Development of Effective Oral Communication I.

71.230 Consumer Education (c 01.00)

Basic knowledge of buying, selling, and consumer principles. Practical application stressed.

71.231 Lay Advocacy (c 01.00)

Designed to meet general legal needs of inner-city residents. Basic purposes: to make the student aware of his basic inalienable rights under the Constitution and to enable him to use the law as a tool and a weapon.

71.232 Principles of Counseling (c 01.00)

The course is geared towards methods of counseling inner-city residents. Considers basic theories of counseling and development of basic counseling skills for both laymen and professionals.

71.233 Techniques of Management (c 01.00)

Examines strategies of management in relation to community organizations.

71.440 Day Care Administration (c 01.00)

An introduction to the establishment and implementation of a successful day care center.

71.441 Child Psychology: Day Care Application (c 01.00)

Introduction to child development with emphasis on cognitive and social learning. Designed for child care workers.

71.442 Education in Day Care Schools (c 01.00)

Introduction to early childhood education at a successful day care center.

71.443 Day Care Health Program (c 01.00)

Introduction to health aspects necessary for successful administration and performance of personnel in a day care program.

Public Relations and Public Information

These certificate programs can be completed through fifteen hours of graduate course work as described below and are open to qualified students who already hold a Bachelor's degree. Those who have had no previous experience or course work in the field of communications may be required to take some additional undergraduate prerequisites. No comprehensive examination, research seminar, or thesis is required for these certificates.

A student in a graduate certificate program must maintain at least a "C" average in all courses taken. If a "D" grade is received in any course, the student must repeat that course or take an additional approved substitute. Waiver of foundation courses may be granted for exceptionally well qualified persons with comparable prior training or experience. Only three

(3) hours of acceptable and approved credit at the graduate level may be transferred from other accredited institutions into the certificate program.

The College of Continuing Education (CCE) may offer admission to a graduate certificate program as an alternative for the applicant who applies for, and is not accepted for, admission to a graduate degree program. If a student who does not meet The American University's requirements for graduate admission completes a graduate certificate with at least a 3.5 grade point average, he will be considered for admission to a CCE degree program.

Graduate Certificate Program in Public Relations

PREREQUISITES:

- 72.001 Basic Writing Skills (For students who do not possess these skills, an accelerated non-credit course will be offered.)

Ability to Type

GENERAL REQUIREMENTS: 9 hours

- 72.540 Principles of Public Relations (3)
 72.542 Promotional Campaigns (3)
 72.557 Publicity and Print Media (3)
 or
 72.558 Publicity and Audio-Visual Media (3)

FIELD REQUIREMENTS: 6 hours

- 72.543 Public Relations Abroad (3)
 72.544 Public Relations and Government (3)
 72.545 Public Relations in Business (3)
 72.525 Analysis of Propaganda (3)
 72.555 Public Relations Law (3)
 72.556 Public Relations for Non-Profit Organizations (3)

Graduate Certificate Program in Government Public Information

PREREQUISITES:

- 72.001 Basic Writing Skills (For students who do not possess these skills, an accelerated non-credit course will be offered.)

Ability to Type

GENERAL REQUIREMENTS: 9 hours

- 72.540 Principles of Public Relations (3)
 72.544 Public Relations and Government (3)
 72.555 Public Relations Law (3)

FIELD REQUIREMENTS: 6 hours

- 72.542 Promotional Campaigns (3)
 72.543 Public Relations Abroad (3)
 72.545 Public Relations in Business (3)
 72.525 Analysis of Propaganda (3)
 72.556 Public Relations for Non-Profit Organizations (3)
 72.557 Publicity and Print Media (3)
 72.558 Publicity and Audio-Visual Media (3)

Master of Science in Public Relations

This is a professional degree designed to meet the needs of the adult community employed in the many and varied areas of public relations.

Admission

A candidate applying for admission to the Master of Science in Public Relations program must have a Bachelor's degree from an accredited college or university. He must satisfy certain grade point averages as outlined in the *University Catalog*. Forms for application to the graduate

program and the required letters of recommendation may be obtained from the Office of Admissions, Financial Aid, and Veterans Affairs, Programs and Services.

Provisional admission may be granted to those students who do not meet the minimum standards for admission. This may be accomplished by maintaining a 3.5 grade point in the Graduate Certificate Program in Public Relations or Government Public Information offered by the College of Continuing Education.

Program

In addition to the prerequisites, the program consists of at least 33 graduate credit hours of course work. Twelve hours of "core" courses must be completed together with 15 hours in electives and 6 hours in an Independent Study Project.

Each student will be assigned a faculty advisor who will outline and approve the student's program. Courses and their sequence will be planned. The program must be completed with at least a "B" average for all graduate courses taken.

The student may complete all of his course work for this program at off campus education centers in the evening. In some instances, he may take courses in the day or evening on campus.

Comprehensive Examination

Satisfactory completion of one written comprehensive examination is required. This examination will be offered each semester as announced in the University Calendar in the *Schedule of Classes*.

Independent Study Project

In addition to satisfactory completion of the prescribed number of classroom courses, the Master of Science candidate in Public Relations will be required to complete an Independent Study Project. Originality, pertinence to current issues or programs, attention to details, quality of copy, and overall quality of the presentation will be governing factors as to the acceptability of the project as partial fulfillment of degree requirements. The project will be undertaken only with the approval of the faculty advisor, and the student must complete the project with a grade of "B" or better.

PREREQUISITES:

- 72.001 Basic Writing Skills (For students who do not possess these skills, an accelerated non-credit course will be offered.)

Ability to Type

CORE REQUIREMENTS: 12 hours

- 72.540 Principles of Public Relations (3)
 72.555 Public Relations Law (3)
 and one of the following courses
 72.544 Public Relations & Government (3)
 72.545 Public Relations in Business (3)
 72.556 Public Relations for Non-Profit Organizations (3)
 one of the following two courses (the other may be used as an elective)
 72.557 Publicity and Print Media (3)
 72.558 Publicity and Audio-Visual Media (3)

ELECTIVES: 15 hours

- 72.525 Analysis of Propaganda (3)
 72.542 Promotional Campaigns (3)
 72.543 Public Relations Abroad (3)
 72.544 Public Relations & Government (3)
 72.545 Public Relations in Business (3)
 72.556 Public Relations for Non-Profit Organizations (3)
 72.557 Publicity and Print Media (3)
 72.558 Publicity and Audio-Visual Media (3)
 72.740 Seminar in Public Relations (3)
 10.604 Business and Its Social Environment (3)
 10.680 Regulation & Control of Business (3)
 10.701 Seminar in Corporate Public Affairs (3)
 11.605 Promotion Management (3)

- 17.503 Mass Media in Society (3)
- 17.532 Publication Layout and Design (3)
- 54.600 The Administrative State (3)
- 54.609 The Federal Executive and Public Policy (3)

Note: Students interested in graduate work in business-government relations in the School of Business Administration may use up to 15 hours in Public Relations courses toward the Master of Science degree in Business-Government Relations.

SPECIAL PROJECT: 6 hours:

- 72.690 Independent Study Project (In-Service Project) (6)

Additional electives may be substituted as determined by faculty advisor with the approval of the Dean of CCE.

Courses of Instruction

Undergraduate level course values are expressed as *course units* according to the following decimal notations: (c 00.25) = $\frac{1}{4}$ course unit; (c 00.50) = $\frac{1}{2}$ course unit; (c 00.75) = $\frac{3}{4}$ course unit; (c 01.00) = 1 course unit; (c 01.50) = $1\frac{1}{2}$ course units; etc.

Graduate level course values are expressed as *semester credit hours* according to the following decimal notations: (s 01.00) = 1 semester hour; (s 02.00) = 2 semester hours; (s 03.00) = 3 semester hours; etc. There are no fractional semester credit hours.

Graduate Courses

All courses listed below carry graduate credit. .500 level courses are open to graduate and qualified undergraduate students. Undergraduate students in .500 level courses receive one course unit for 3 or 4 semester hour credits. Courses at the .600 and .700 levels are open to graduate students only.

72.525 Propaganda Analysis (s 03.00)

Attitudes and public opinion; how they have been influenced in past and present through propaganda techniques. Specific topics to be studied include formation of attitudes, attitude change, the nature of public opinion, public opinion measurement, how the PR practitioner attempts to persuade. Historical uses of propaganda, and propaganda—good, bad or neither?

Prerequisite: 72.540.

72.540 Principles of Public Relations (s 03.00)

Historical development of public relations; economic and social factors in relations between publics and media in the formation of public opinion. Case studies of current practices.

72.542 Promotional Campaigns (s 03.00)

Case studies of promotional methods of business, government and social organizations; development of promotional campaigns by each student for an institution in Washington, D.C.

Prerequisite: 72.540.

72.543 Public Relations Abroad (s 03.00)

Problems of public relations in international affairs; case studies of American business public relation practices in other countries. *Prerequisite:* 72.540.

72.544 Public Relations and Government (s 03.00)

Analysis of public information programs conducted by governmental agencies to influence various publics and institutions on key government issues. Intensive research and journalistic reporting of actual information programs in Washington, D.C. during the semester. *Prerequisite:* 72.540.

72.545 Public Relations in Business (s 03.00)

Case studies in business and industrial relationships with various publics, e.g., labor, trade, dealer, customer, stockholder and community. *Prerequisite:* 72.540.

72.555 Public Relations Law (s 03.00)

Legal implications and consequences of the work of the public relations practitioner. Laws that the practitioner must be aware of to do his work intelligently.

72.556 Public Relations for Non-Profit Organizations (s 03.00)

Public relations practice of labor, farm, welfare, hospital and educational institutions. How the non-profit sector interacts with business, government and the media.

72.557 Publicity and Print Media (s 03.00)

This course is designed to teach the basics of publicity writing, including the preparation of press releases, magazine query letters, article outlines, and articles and speech research and writing.

72.558 Publicity and Audio-Visual Media (s 03.00)

This course is designed to teach the basics of publicity writing, including the preparation of press releases, spot announcements for radio and television, and techniques in preparing audio and visual material for radio and television use.

72.580 Public Relations Institute (s 01.00)

Highly specialized public relations techniques are covered in depth. Such subject areas as public relations aspects of the Freedom of Information Act, management of public relations organizations, reaching special public relations audiences, and others are presented. Generally, two institutes are offered each semester. No more than 03.00 semester hour credits may be used in the certificate and degree programs, and no single subject may be repeated. *Prerequisite:* 72.540 or permission of CCE.

72.690 Independent Study Project (In-Service Project) (s 01.00 through 06.00)

Prerequisite: permission of CCE. See Independent Reading Courses and Study Projects under General Curriculum Information.

72.740 Seminar in Public Relations (s 03.00)

Formulation of policies for long-range public relations programs. *Prerequisite:* permission of CCE.

Radio and Newspaper Instruction

The College of Continuing Education offers two fully accredited courses via The American University radio station WAMU-FM, 88.5 on the dial.

Ecology and the Human Environment

Course 31.571, Ecology and the Human Environment, is a graduate or advanced senior level course broadcast twice weekly with a replay on Sundays. Twenty-eight lectures by Dr. Martha Sager, Professor of Environmental Systems Management, offer fundamental information on ecology and explore many related topics, *i.e.*, health and drugs, food additives, nuclear and fossil energy, pesticides and food, the politics of pollution.

Women Dare Daily

Women Dare Daily is an undergraduate level course broadcast once weekly with a replay on Saturday. The course covers women in vocations, the home, consumerism, law, and politics. In addition to the radio lectures, there is a term project and two on campus discussion sessions. The course number is 31.561.

Newspaper Course

Under a grant by the National Endowment for the Humanities, and in coordination with the University of California, San Diego, the College of Continuing Education presents a series of 18 lectures, one each Sunday in the *Washington Star News*. The course lectures are prepared by distinguished educators and scholars throughout the United States and the course is associated with the American Studies Program in the College of Arts and Sciences at The American University. In addition to the weekly newspaper lecture, students taking the course for undergraduate credit are requested to attend two on-campus conferences.

Science and Technology: Policy and Administration

Certificate Program

The College of Continuing Education in cooperation with the School of Government and Public Administration, College of Public Affairs, offers a certificate program in Science and Technology: Policy and Administration for the student who wants a more intensive and shorter program than a graduate degree. In certain conditions certificate work may apply toward a graduate degree objective. However, only grades of B or better may be applied toward a graduate degree program in the School of Government and Public Administration.

The graduate certificate program is open to students who have a bachelor's degree from an accredited institution. For those students who are not United States' citizens, special approval for admission is required from the Office of International Admissions.

A student in a graduate certificate program must maintain at least a "B" average in all courses taken. Only three (3) hours of acceptable and approved credit for the required graduate level courses may be transferred from other accredited institutions into the certificate program.

FOUNDATION COURSES: 6 hours

- 53.660 Political Institutions and Behavior (3)
- 54.600 The Administrative State (3)

GENERAL REQUIREMENTS:

- 54.560 Science, Technology and Government: Interaction and Issues (3)
- 55.513 Technology and Administration (3)

ELECTIVES: 12 hours

- 54.661 The Public Management of Science (3)
- 54.563 Science, Technology and International Affairs (3)
- 54.670 American Public Policy (3)
- 54.760 Seminar in Science, Technology and Government (3)
- 55.570 Management of Research and Engineering Organizations (3)
- 55.670 The Politics and Economics of Research and Development (3)
- 55.673 Planning and Control of Research and Development Operations (3) *Prerequisite:* 55.570

Technology and Administration

Certificate Programs

Undergraduate Certificate Program in Technology of Management

Students in the Technology of Management certificate program may apply such a program to careers in the field of business or technology of management. The certificate is awarded upon completion of 8 courses distributed under the curriculum provided below. Up to an equivalent of 3 courses of comparable previous course work may be applied by transfer. A minimum of 5 courses of this program must be taken in residence. Students may transfer into the program grades of "C" or better from an accredited institution. The student must maintain a "C" average to be awarded the certificate.

CERTIFICATE REQUIREMENTS: 8 courses

- 41.100 Finite Mathematics
- 69.202 Basic Statistics
- 10.206 Introduction to Financial Accounting
- 55.310 Introduction to Data Processing
- 55.337 Problem Analysis
- and three courses from:
- 55.333 Computer Programming: FORTRAN
- 55.334 Computer Programming: COBOL

- 55.335 Computer Programming: PL/I
- 55.331 Introduction to Computer Design
- 55.360 Management and the Computer

Graduate Certificate Programs in Technology of Management

The College of Continuing Education offers the following programs for certificates in technology of management: computer systems, applications, operations research, scientific and technical information systems, science/technology policy and administration, management information systems, and environmental systems management.

These certificate opportunities are offered as specialized preparation for careers in these fields for the students who do not want the broader and more demanding requirements of graduate study. Under certain conditions certificate work may be applied toward the award of a degree.

These certificate programs are open to any student who has a Bachelor's degree from an accredited undergraduate institution.

Computer Systems Applications

FOUNDATION COURSES: no graduate credit

- 55.310 Introduction to Data Processing*
- 55.333 Computer Programming: FORTRAN
OR
- 55.334 Computer Programming: COBOL
OR
- 55.335 Computer Programming: PL/I
- 55.411 Introduction to Management Mathematics (or 41.101 or 41.111)
- 69.400 Managerial Statistics (or 69.300)

GENERAL REQUIREMENTS:

- 55.511 The Systems Approach (3) or
- 55.512 Introduction to Cybernetics (3)
and
- 55.530 Real-Time Systems (3)

FIELD COURSES: 9 hours

- 55.531 Computer Design (3)
- 55.632 Simulation and Modeling (3)
- 55.633 Programming Systems and Language (3)
- 55.635 Workshop in Computer Systems (3)
- 55.637 Workshop in Operating Systems (3)

* May be waived by the Director, Center for Technology and Administration, for the student who has had two years of job-related computer experience, and instruction or substantial experience in non-computer data handling systems.

Environmental Systems Management

FOUNDATION COURSES: no graduate credit

- 55.310 Introduction to Data Processing*
- 55.333 Computer Programming: FORTRAN
OR
- 55.334 Computer Programming: COBOL
OR
- 55.335 Computer Programming: PL/I
- 55.411 Introduction to Management Mathematics (or 41.101 or 41.111)
- 69.400 Managerial Statistics
(or 69.300)

***** Plus an adequate background in basic undergraduate science courses

* waived for the student who has had two years of job-related computer experience.

GENERAL REQUIREMENT:

55.511 The Systems Approach (3)

FIELD COURSES: 15 hours

- 55.580 Environmental Systems Analysis—A Survey Course (3)
- 55.581 Technological Systems Management of the Environment (3)
- 55.582 Administrative Systems Management of the Environment (3)
- 55.683 Pollution Abatement Potentials (3)
- 55.684 Environmental Management in Relation to Conservation (3)
- 55.685 Workshop in Environmental Systems Management (3)

Note: In specifying the number of credit hours needed for a non-degree student to be awarded more than one certificate, completion of 55.511, The Systems Approach, and 55.530, Real-Time Systems, will be counted as credit toward only one certificate. Students desiring a second certificate in any other CTA field must complete 15 or 18 graduate hours in the second field. These 15 or 18 hours cannot include courses from any other CTA certificate program. An undergraduate who had taken 55.511 and 55.530, or any other graduate courses in CTA, will need 15 or 18 additional graduate credit hours to obtain a graduate certificate.

Environmental Systems Management: Ocean Affairs**FOUNDATION COURSES:** no graduate credit

- 55.310 Introduction to Data Processing*
- 55.333 Computer Programming: FORTRAN
or
- 55.334 Computer Programming: COBOL
or
- 55.335 Computer Programming: PL/1
and
- 55.411 Introduction to Management Mathematics (or 41.101, or 41.111)
- 69.400 Managerial Statistics (or 69.300)

Plus an adequate background in basic undergraduate science, economics, and government.

GRADUATE COURSES**GENERAL REQUIREMENT**

- 55.511 The Systems Approach
or
- 55.513 Change and the Managerial Process

FIELD REQUIREMENTS: select 12 semester hours from the following:

- 55.580 Environmental Systems Analysis:
The Coastal and Estuarine Environmental Survey (3)
- 55.581 Technological Systems Management of the Environment:
Engineering Principles/Environmental Management (3)
- 55.582 Administrative Systems Management of the Environment:
Marine Law (3)
- 55.683 Pollution Abatement Potentials:
Marine Pollution (3)
- 55.684 Environmental Management in Relation to Conservation Practices:
Conservation Management and the Marine Environment (3)
- 55.685 Workshop in Environmental Systems Management:
Ocean Affairs (3)
- 55.780 Seminar in Environmental Systems Management:
Marine and Coastal Zone Management (3)

Management Information Systems**FOUNDATION COURSES:** no graduate credit

- 55.310 Introduction to Data Processing*

* waived for the student who has had two years of job-related computer experience.

- 55.333 Computer Programming: FORTRAN
OR
- 55.334 Computer Programming: COBOL
OR
- 55.335 Computer Programming: PL/I
- 55.411 Introduction to Management Mathematics
(or 41.101 or 41.111)
- 69.400 Managerial Statistics
(or 69.300)

GENERAL REQUIREMENTS:

- 55.511 The Systems Approach (3)
- 55.530 Real-Time Systems (3)

FIELD COURSES: 9 hours (one of which must be 55.660)

- 55.560 Systems Design for Business Operations (3)
- 55.561 Management of Automatic Data Processing Systems (3)
- 55.660 Management Information and Reporting Systems (3)
- 55.665 Workshop in Management Information Systems (3)

Operations Research

FOUNDATION COURSES: no graduate credit

- 41.222 Calculus II
- 69.400 Managerial Statistics (or 69.300)

GENERAL REQUIREMENTS:

- 55.514 Operations Research Approach (3)
- 55.542 Probability and Statistics for Management Decisions (3)
- 55.544 Advanced Management Mathematics (3)
(not required for the student who has had 41.222 and 41.223 or equivalents within the last ten years)

FIELD COURSES: 9 hours

- 55.641 Methods of Operations Research I (3)
- 55.642 Methods of Operations Research II (3)
- 55.645 Workshop in Operations Research (3)
- 55.646 Cost Benefit Analysis (3)

Science/Technology Policy and Administration

FOUNDATION COURSES: no graduate credit

- 55.411 Introduction to Management Mathematics (or 41.101 or 41.111)
- 69.400 Managerial Statistics
(or 69.300)

GENERAL REQUIREMENTS:

- 55.511 The Systems Approach (3)
- 55.570 The Management of Research and Engineering Organizations (3)

FIELD COURSES: 9 hours

- 55.571 Technological Forecasting (3)
- 55.670 The Politics and Economics of R & D (3)
- 55.671 R & D in the Total Organization (3)
- 55.673 Planning & Control of R & D Operations (3)

Scientific and Technical Information Systems

FOUNDATION COURSES: no graduate credit

- 55.310 Introduction to Data Processing*
- 55.333 Computer Programming: FORTRAN (or 55.335 Computer Programming PL/I)
- 55.411 Introduction to Management Mathematics (or 41.101 or 41.111)
- 69.400 Managerial Statistics (or 69.300)

GENERAL REQUIREMENTS:

- 55.511 The Systems Approach (3) or
- 55.512 Introduction to Cybernetics (3) and
- 55.530 Real Time Systems (3)

FIELD COURSES: 12 hours

- 55.550 Survey of Information Science & Technology (3)
- 55.650 Natural Language Data Processing (3)
- 55.653 Concepts of Indexing and Abstracting (3)
- 55.656 Publication Techniques (3)

*waived for the student who has had two years of job-related computer experience, and instruction or substantial experience in non-computer data handling systems.

Urban Affairs

The College of Continuing Education in cooperation with the School of Government and Public Administration, College of Public Affairs, offers a certificate program in Urban Affairs for the student who wants a more intensive and shorter program than a graduate degree. In certain conditions certificate work may apply toward a graduate degree objective. However, only grades of B or better may be applied toward a graduate degree program in the School of Government and Public Administration. The student must maintain at least a C average in all courses taken in the certificate program. If a D grade is received in any course, the student must repeat that course or take an additional approved substitute.

PREREQUISITE COURSES:

- A. 53.653 American Federalism (3) (or 3 hours of undergraduate federalism or inter-governmental relations)
- B. 53.660 Political Institutions and Behavior (3)
- C. 54.600 The Administrative State (3)

REQUIRED COURSES:

- A. 54.670 American Public Policy
- B. 54.680 The Urban Polity (3)
- C. 54.682 Urban Politics (3)
- D. 54.684 Urban Planning (3)
- E. Plus one 3 hour elective from:
 - 11.685 Land Planning and Use (3)
 - 65.567 Urban Redevelopment (3)
 - or other sociology or economics graduate courses relating to the Urban Affairs Program

Interdisciplinary Studies

Correspondence Directory: Phillip H. Scribner, *Coordinator*

Notice

The following material on interdisciplinary programs and courses at The American University is under constant revision with new listings added periodically. Up to date material on all interdisciplinary activities can be acquired from the Office of Interdisciplinary Studies, The American University, Washington, D.C., 20016.

Undergraduate Degrees

Bachelor of Arts in Interdisciplinary Studies

Bachelor of Science in Interdisciplinary Studies

Composition and Reading Requirement—See Undergraduate Degree Requirements under General Academic Regulations and Information.

Language Requirement—See Undergraduate Degree section under the college or school which houses the program.

THE INDIVIDUALLY CONSTRUCTED INTERDISCIPLINARY MAJOR PROGRAM

This program is designed for students who wish to construct their own major program of study leading to the B.A. or B.S. Individual interdisciplinary programs are formulated by students in accordance with their needs, capacities, and interests. The initiative in formulating an interdisciplinary major is left to the student. The student has the responsibility to determine the central concept around which the program is constructed; to formulate in writing a list of all courses, major, related, and tool, which are to serve as major requirements for the program; and to secure the advice and program approval of three full-time faculty members, at least one from each of the two or more disciplines involved in the interdisciplinary field, who will assist in setting up the program and who will act as faculty advisors.

In formulating an interdisciplinary major program there are certain established guidelines which *must* be followed:

Central Concept and Area of Concentration

This is perhaps the most important aspect of any individually constructed interdisciplinary major program. Every program must comprehend an academically sound area of concentration defined by a central concept. The area of concentration may not be the focus of any current degree program offered by The American University and the central concept must be interdisciplinary in character. A random collection of interesting courses taken from several departments does not constitute an acceptable interdisciplinary program. Each program should be designed to give the student the fundamental skills and background knowledge relevant to the specific interdisciplinary area.

Course Requirements

All programs must include at least 14 courses, 12 related courses from appropriate departments and two special courses.

The 12 courses must be selected according to their relevance to the proposed interdisciplinary theme. A minimum of nine of these courses must be upper level (xx.300 or above), and it is usually advisable to include at least two xx.500 level courses.

The two special courses for the major are usually independent study projects (xx.490) under the direction of the major advisor and constructed to pull the various aspects of the interdisciplinary program together in one study project. With the advisor's approval, the student may substitute an internship course (xx.491) under the direction of the major advisor, or (when available) a senior seminar for one, or both, of the special courses. The major advisor may also permit the student to substitute a xx.500 level seminar for one of the two special courses, when he believes it would serve to integrate the different parts of the program as well.

All University requirements for the bachelor's degree must be fulfilled. If the student completes more than 16 courses in the major program, the student will earn a B.S. degree instead of a B.A. The major will be entitled "Interdisciplinary Studies in (*title of program*)," in which a name designating the interdisciplinary field is inserted.

Major Advisor and Two Sponsors

All individually constructed interdisciplinary major programs must have the approval of three full-time University faculty members. The student is expected to secure the approval of one major advisor and the endorsement of two faculty sponsors.

In becoming the major advisor, the faculty member agrees to take the responsibility for defending the interdisciplinary major program to the Committee on Interdisciplinary Studies and to advise the student actively for the rest of the student's undergraduate career. The two faculty sponsors, by endorsing the program, agree to assist the major advisor when he needs help outside his area of competence. The major advisor, however, assumes the primary responsibility for the academic quality of the interdisciplinary major program.

Admission to the Major

No student with less than a C average (that required by the University) will be admitted to an interdisciplinary major program.

All arrangements for the establishment of interdisciplinary majors should be made no later than the first semester of the junior year, except by special petition to the Interdisciplinary Studies Committee, and no earlier than the second semester of the freshman year.

Ordinarily, courses which a student has already taken and which clearly form part of the proposed interdisciplinary major field may be counted in accordance with the following schedule as satisfying the minimum course requirements for interdisciplinary majors. Any student applying for a major in the second semester of her or his sophomore year or earlier is allowed to count a maximum of two previously taken courses as part of the major. A first semester junior is allowed to count four. A second semester junior can count no more than six, and a first semester senior can count no more than eight previously taken courses as part of the major. Courses taken during the semester which a student applies for the major would not be counted in these maximums.

Students interested in formulating an interdisciplinary major program must make formal application to the University Senate Interdisciplinary Studies Committee. Application forms may be obtained through the Office of Interdisciplinary Studies. Once filled out and approved, the completed application will serve as the official record of the student's interdisciplinary major program.

FORMALIZED INTERDISCIPLINARY MAJOR PROGRAMS

Some interdisciplinary programs are formalized and carry their own degree major designations. Among these degree major programs are majors in "Communication, Legal Institutions, Economics, and Government" and in "Law and Society," both of which are part of the more general and interdisciplinary "Law, Public Policy, and Society" program. These degree majors are described in detail below.

In addition to the two degree majors described in detail below, other formalized interdisciplinary style programs are offered by various colleges, schools, and departments in the University. These include (consult the listed teaching units for further details):

American Studies Program (consult American Studies Program, College of Arts and Sciences)

Distributed Science Program (consult Interdepartmental Science, College of Arts and Sciences)

Environmental Studies Program (as a second major) (consult College of Arts and Sciences Interdisciplinary)

Film and Broadcast Programs (consult Department of Communication, College of Arts and Sciences)

Foreign Language and Communication Media Program (consult Department of Language and Foreign Studies and Department of Communication, College of Arts and Sciences)

Jewish Studies Program (consult Jewish Studies Program, College of Arts and Sciences)

Mass Communication and Society Program (consult Department of Communication, College of Arts and Sciences)

Urban Affairs Program (consult School of Government and Public Administration, College of Public Affairs)

Visual Communication Program (consult Department of Communication, College of Arts and Sciences)

LAW, PUBLIC POLICY, AND SOCIETY MAJOR

The interdisciplinary Law, Public Policy, and Society major is organized into two emphases. The first, Law and Society, studies law from various points of view: its role in this, and other, societies; its relation to economics; its place in urban affairs; its justification; and its relation to public policy. The second emphasis, Communication, Legal Institutions, Economics, and Government (CLEG), is designed to prepare students who expect to work in various aspects of management and public administration in which law will play an important part. Students should decide which approach to legal institutions is most suitable to their ambitions.

There is no "pre-law" major for undergraduates. Law schools accept candidates from all major fields, although some majors turn out to be more common than others. Law, Public Policy and Society is not intended to be a "pre-law" major, any more than sociology, philosophy, or history. If you are planning to attend law school, you should talk to your advisor about the best way for *you* to prepare, given *your* goals as a lawyer. Public Policy and Society is designed to serve students, in the first program, who want to understand law as a social phenomenon and in terms of its justification (Law and Society), and to serve other students who expect to play an active role in economic and political institutions and will need to understand the role of law and communications in fulfilling their tasks (CLEG).

Admission to the Major

All University admission requirements must be fulfilled.
No student with less than a C average may declare a major in Law, Public Policy, and Society.
All arrangements for the undergraduate major should normally be made no later than the first semester of the junior year. These arrangements should be made in consultation with and require the approval of the director of the emphasis in which the student is specializing, be it Law and Society or Communication, Legal Institutions, Economics, and Government.

LAW AND SOCIETY EMPHASIS

Bachelor of Arts

The "Law and Society" emphasis is designed to help prepare students seeking careers of further education in law and law-related areas. It focuses primarily on the theoretical constructs of law and attempts to understand their impact and influence on other aspects of society (e.g., urban life, criminal justice, economic development, public policy, etc.). The emphasis is further directed towards the study of law as an instrument of social control, social protest, and social change.

Requirements for the Major

CORE COURSES the following six (6) are required

73.101	Introduction to the Administration of Justice I	53.341	Civil Rights and Liberties
73.220	Criminal Justice and the Constitution	65.415	Law and the Social Order
19.100	Introduction to Economics	75.396	Selected Topics: Reasoning in the Legal Process
53.323	Law and the Political System, or		

RELATED COURSES a minimum of nine (9) are required

Students must select, in consultation with their program advisor, an additional nine courses dealing in part with some aspect of law and its relationship to society. Students must choose these courses from the following "Law and Society" areas:

Theoretical Foundations	Legal Systems—Normative
Law in the City	Comparative Legal Systems
Economics and Law	Law and Public Policy
Criminal Justice	

Students are encouraged to select courses in sequences that will result in more than a superficial knowledge in the various disciplines in the major. Towards this end a "Law and Society" advisor will be designated in each of the participating teaching units (Center for the Administration of Justice, School of Government and Public Administration, and Departments of Economics and Sociology), to aid the student in properly selecting and planning major courses. Students are further advised to select some of their electives from related areas such as history, anthropology, and philosophy.

PROJECT COURSES the following two are required

75.492	Law and Society Senior Seminar
75.491	Law and Society Internship, or a .500 level substitute chosen from the approved listing of Law and Society courses.

Program Director

Dr. Jeffrey Reiman, *Center for the Administration of Justice.*

Approved Major Courses for Law and Society Major

THEORETICAL FOUNDATIONS

47.310	Ethics	65.411	Contemporary Sociological Theory
47.530	Social Philosophy	73.501	The Concept of Justice
53.311	Modern Political Thought	73.502	The Concept of Law
65.410	Classical Sociological Theory		

LAW IN THE CITY

73.201	Administration of Justice and the Community	73.331	Corrections in the Community
		53.324	Metropolitan Politics
19.315	Urban Political Economy		

ECONOMICS AND LAW

19.303	Introduction to Economic Theory	19.315	Urban Political Economy
19.308	History of Economic Development	73.313	Organized Crime
19.309	Public Economics	73.315	White Collar and Commercial Crime
19.312	Political Economy		

CRIMINAL JUSTICE

73.102	Introduction to the Administration of Justice II		
73.201	The Administration of Justice and the Community		
73.230	Contemporary Corrections in the United States		
73.253	Juvenile Delinquency and Youth Crime		
73.330	Institutional Corrections	73.511	Innovations in Law Enforcement
73.431	The Prison Community	73.532	Innovations in Corrections
73.450	Prevention of Crime and Delinquency	73.510	Police and the Political System

LEGAL SYSTEMS—NORMATIVE

73.221	Substantive Aspects of Criminal Law	73.501	The Concept of Justice
		73.502	The Concept of Law
73.320	Criminal Procedures	53.311	Modern Political Thought
73.352	Psychiatry and the Law	65.410	Classical Sociological Theory
73.458	The Juvenile and the Law		

COMPARATIVE LEGAL SYSTEMS

03.201	Cultural Anthropology	03.336	Social Structures
03.335	Cultures of the World	03.434	Community Studies
53.330	Comparative Politics of Agrarian and Industrializing Systems		
19.302	Alternate Economic Theories and Institutions		

LAW AND PUBLIC POLICY

73.150	Social Process and Deviant Behavior	53.322	Bureaucracy and Administration
		53.340	Government and Social Policy
71.221	Law, Repression and the Community	10.453	Business—Government Relations
19.302	Alternate Economic Theories and Institutions	53.535	Comparative Interest Groups and Elites
19.309	Public Economics		

LAW, PUBLIC POLICY, AND SOCIETY MAJOR WITH EMPHASIS IN COMMUNICATION, LEGAL INSTITUTIONS, ECONOMICS, AND GOVERNMENT (CLEG)

The Law, Public Policy, and Society major with an emphasis in Communication, Legal Institutions, Economics, and Government (CLEG) provides students with the breadth of background necessary to participate effectively in decision making for public affairs. Drawing on the specialized methods and perspectives of each of these fields, the CLEG emphasis within the Law, Public Policy, and Society major stresses the practical training necessary to deal with social problems and public issues.

Requirements for the Major: Bachelor of Arts

CORE COURSES all students must complete the following three course sequences for each CLEG area

COMMUNICATION

17.201	Introduction to Communication		
two of the following:			
17.202	Public Communication	17.560	Political Communication
17.550	Persuasive Communication		

LEGAL INSTITUTIONS

73.101	Introduction to Administration of Justice I		
75.396	Selected Topics: Reasoning in the Legal Process		
one of the following:			
73.201	Administration of Justice and the Community		
73.220	Criminal Justice and the Constitution		
73.453	Civil Disorder	73.502	The Concept of Law

ECONOMICS

- | | | | |
|--------|--|--------|---|
| 19.100 | Introduction to Economics
one of the following: | 19.305 | Introduction to Quantitative
Economics |
| 19.300 | Price Theory and Its History | 19.309 | Public Economics |
| 19.301 | Income Theory and Its History
one of the following: | | |
| 19.304 | Alternative Economic Theories and Institutions | | |
| 19.312 | Political Economy | | |

GOVERNMENT

- | | | | |
|-----------------------|---|--------|----------------------------------|
| two of the following: | | | |
| 53.101 | Introduction to Political Theory | 53.150 | American Government and Politics |
| 53.102 | Introduction to Comparative Politics
one of the following: | | |
| 53.323 | Law and the Political System | 53.341 | Civil Rights and Liberties |

RELATED COURSES a minimum of two (2) are required

An additional two courses must be chosen from the above list or from the listing of approved CLEG courses. (Only those courses listed above which are not completed to satisfy the Core Requirement may be counted.) Both courses must be at the .300 level or above.

PROJECT COURSES the following two (2) are required

- | | | | |
|--------|---------------------|--------|------------------------|
| 75.492 | CLEG Senior Seminar | 75.491 | CLEG Senior Internship |
|--------|---------------------|--------|------------------------|

Requirements for the Major: Bachelor of Science

The Bachelor of Science degree in CLEG will be granted if the student completes more than sixteen approved courses for the CLEG major. The Core Requirement for the BA in CLEG must be satisfied. Fifty percent (50%) of the courses completed for the major must be at the .300 level or above. A minimum of four courses must be selected from each of the four CLEG areas. Both Project Courses must be taken.

Program Director

Dr. Jerry Hendrix, *Department of Communication.*

Approved Major Courses for the CLEG Major**COMMUNICATION COURSES**

- | | | | |
|-----------|-------------------------------|-----------|-------------------------------|
| * 17.201 | Introduction to Communication | ** 17.560 | Political Communication |
| ** 17.202 | Public Communication | 17.580 | Communication in Small Groups |
| ** 17.550 | Persuasive Communication | | |

LEGAL INSTITUTION COURSES

- | | | | |
|-----------|---|-----------|--|
| * 73.101 | Introduction to the
Administration of Justice I | 73.455 | Etiology of Crime |
| ** 73.102 | Introduction to the
Administration of Justice II | 73.463 | Free Press and the
Administration of Justice |
| ** 73.201 | Administration of Justice and
the Community | ** 73.502 | The Concept of Law |
| | | 73.510 | The Police and the Political |
| 73.220 | Criminal Justice and the
Constitution | 73.511 | Innovation in Law Enforcement |
| 73.431 | The Prison Community | 73.552 | Political Crime |
| ** 73.453 | Civil Disorder | * 75.396 | Selected Topics: Reasoning in
the Legal Process |
| 73.454 | Violence in America | | |

ECONOMICS COURSES

- | | | | |
|-----------|---|-----------|---|
| * 19.100 | Introduction to Economics | 19.310 | Introduction to Econometrics,
or 69.202 Basic Statistics |
| ** 19.300 | Price Theory and Its History | ** 19.312 | Political Economy |
| * 19.301 | Income Theory and Its History | 19.314 | Junior/Senior Seminar |
| * 19.304 | Alternative Economic Theories
and Institutions | 19.307 | Political Economy of Economic
Development |
| ** 19.305 | Introduction to Quantitative
Economics | 19.311 | International Economics |
| ** 19.309 | Public Economics | 19.315 | Urban Political Economy |

GOVERNMENT COURSES

- | | | | |
|-----------|---|-----------|--|
| ** 53.101 | Introduction to Political
Theory | ** 53.323 | Law and the Political System |
| ** 53.102 | Introduction to Comparative
Politics | 53.324 | Metropolitan Politics |
| | | 53.326 | State Government and Politics |
| ** 53.150 | American Government and
Politics | 53.327 | American Constitutional
Development |
| | | 53.340 | Government and Social Policy |

53.320 Political Behavior
 53.321 Congress and the Presidency
 53.322 Bureaucracy and Administration

53.560 Science, Technology and
 Government: Interaction and
 Issues
 **53.341 Civil Rights and Liberties

NOTE: A variety of seminars on special topics at the .400 and .500 level will be available to the CLEG major.

* Core Course

** Optional Core Course (May serve as related course only if not taken to satisfy the core requirement.)

Graduate Degrees

Master of Arts in Interdisciplinary Studies

Master of Science in Interdisciplinary Studies

THE INDIVIDUALLY CONSTRUCTED INTERDISCIPLINARY MASTER PROGRAM

The individually constructed interdisciplinary Master program allows graduate students an opportunity to design their own M.A. or M.S. program built around a central theme that cuts across various disciplines. Graduate students interested in formulating their own interdisciplinary Master program must follow the guidelines set out below.

Central Concept

An interdisciplinary Master program must comprehend an academically sound area of study defined by a central concept. The area of study must not duplicate the program of any Masters degree currently offered by the University, and the central concept which defines the interdisciplinary program must be explained in a written statement attached to the application for approval of the Masters program.

Course Requirements

The University requires a minimum of 30 semester hours of graduate work for the Masters degree, including six hours of research credit, either in writing a thesis or in completing special research oriented seminars. At least 24 of these hours, including the thesis or research sequence, must be completed in residence, and the courses, which may be offered by several different departments, should be selected to support the interdisciplinary area of study.

Examination Requirement

The subject and scope of the comprehensive examination(s) must be determined by the student and his or her advisors at the time of initial approval of the interdisciplinary field and a statement detailing the provisions for the examination (who will draw it up, areas covered, who will evaluate it, etc.) must be submitted with the application to the Office of Interdisciplinary Studies. (Unless otherwise indicated, the faculty who approve the program take responsibility for drawing up, administering, and evaluating the comprehensive examination(s).)

Thesis and Non-Thesis Option

The research requirement (six hours of graduate credit) may be satisfied either by writing a thesis or by completing two research oriented seminars at the xx.600 or xx.700 levels with a grade of B or better. The application must specify which option has been chosen, and indicate which courses will be taken (on a non-thesis option), or the subject of the thesis and the members of the thesis committee (on the thesis option).

Program Advisors

All programs must have the approval of three full-time faculty members, at least one from each of the two or more disciplines which may be involved in the interdisciplinary field. The responsibility for securing the advice of the three faculty members is left with the student. The student should select one of the faculty advisors as the primary advisor and the primary advisor must be from the admitting school (or department if the student is a College of Arts and Sciences student).

Admission to the Major

Graduate students interested in establishing an individually constructed interdisciplinary Master program must first be admitted to a school or college. (Admission to the College of

Arts and Sciences requires admission to a department.) In applying for this admission to a school or college, the prospective graduate student may alert the faculty and teaching units to his or her interdisciplinary goals. In this manner, the student unofficially explores the possibilities of obtaining faculty support for the desired interdisciplinary program. The Office of Interdisciplinary Studies and the administering office of the admitting school or college may aid the prospective student in obtaining faculty advice.

Graduate students interested in formulating an interdisciplinary Master program may make formal application to the University Senate Interdisciplinary Studies Committee. Application forms may be obtained through the Office of Interdisciplinary Studies along with a written statement of the guidelines for establishing an interdisciplinary program. Once filled out and approved, the completed application will serve as the official record of the student's interdisciplinary Master program.

FORMALIZED INTERDISCIPLINARY MASTER PROGRAMS

Some interdisciplinary graduate programs are formalized and carry their own degree major designations. These interdisciplinary Master programs include:

- Film Program (consult the Department of Communication, College of Arts and Sciences)
- International Communication (consult the School of International Service, College of Public Affairs, or the Department of Communication, College of Arts and Sciences)

Courses of Instruction

Undergraduate level course values are expressed as *course units* according to the following decimal notations: (c 00.25) = $\frac{1}{4}$ course unit; (c 00.50) = $\frac{1}{2}$ course unit; (c 00.75) = $\frac{3}{4}$ course unit; (c 01.00) = 1 course unit; (c 01.50) = $1\frac{1}{2}$ course units; etc.

Graduate level course values are expressed as *semester credit hours* according to the following decimal notations: (s 01.00) = 1 semester hour; (s 02.00) = 2 semester hours; (s 03.00) = 3 semester hours; etc. There are no fractional semester credit hours.

Undergraduate Courses

75.100 Learning to Learn (c 00.50)

This course may help you do significantly better in all your future college work. Bringing together current research findings from psychology and education, its purpose is to impart information and techniques which will enable you to control your academic behavior, making it more efficient and rewarding. While the theoretical background will be important, the real core of the course will be your actively applying the principles you learn to your own studying.

75.101 Selected Human Problems I: Contemporary Issues in World Affairs (c 01.00)

For course description see listing under the School of International Service, College of Public Affairs.

75.102 Selected Human Problems II: Contemporary Issues in World Affairs (c 01.00)

Continuation of 75.101.

75.317 Para-Professional Services: Training and Application (c 01.00)

This course offers instruction and service in peer counseling and related research activities and will include training in basic communication and counseling skills, followed by additional intensive training in one speciality area: Hotline, Companion Program, Pre-Withdrawal and Human Ecology Program, Peer Student Program, and Learning to Learn Program. The program is open to students who are willing to be responsible for work on a particular campus service through the semester. Opportunities exist in research and evaluations of campus systems which cause students problems as well as in counseling of students. This course is part of the P.E.A.C.E. program (Peer-Environmental Analysts, Counselors and Educators).

75.333 Man the Mythmaker (c 01.00)

This interdisciplinary approach to the concept of myth will investigate the means by which man has always attempted to find meaning in his cosmos. Readings drawn from philosophy, literature, psychology, religion, etc. Seminar course with several critical papers and emphasis on participation in class. (Junior or senior status recommended.)

75.390 Independent Reading Course in Interdisciplinary Studies (c 00.25 through 02.00)

See Independent Reading Courses and Study Projects under General Curriculum Information.

75.396 Selected Topics (Non-Recurring) in Interdisciplinary Studies (c 00.25 through 02.00)

Each semester some courses will be offered under the Selected Topics heading. These courses will deal with a variety of interdisciplinary issues and problems. Students should check the *Schedule of Classes* each semester to discover the courses offered for that term.

75.490 Independent Study Project in Interdisciplinary Studies (c 00.25 through 02.00)

See Independent Reading Courses and Study Projects under General Curriculum Information.

75.491 Internship/Interdisciplinary (c 00.25 through 02.00)**Graduate Courses**

All courses listed below carry graduate credit. .500 level courses are open to graduate and qualified undergraduate students. Undergraduate students in .500 level courses receive one course unit for 3 or 4 semester hour credits. Courses at the .600 and .700 levels are open to graduate students only.

75.523 Colloquium on France (s 03.00)

For course description see listing under the Department of Language and Foreign Studies, College of Arts and Sciences.

75.533 Colloquium on Germany (s 03.00)

For course description see listing under the Department of Language and Foreign Studies, College of Arts and Sciences.

75.543 Colloquium on the Soviet Union (s 03.00)

For course description see listing under the Department of Language and Foreign Studies, College of Arts and Sciences.

75.553 Colloquium on Latin America (s 03.00)

For course description see listing under the Department of Language and Foreign Studies, College of Arts and Sciences.

75.590 Independent Reading Course in Interdisciplinary Studies (s 01.00 through 06.00)

See Independent Reading Courses and Study Projects under General Curriculum Information.

75.596 Selected Topics (Non-recurring) in Interdisciplinary Studies (s 01.00 through 06.00)

See course description under 75.396 above.

75.617 Para-Professional Services: Training and Application (s 03.00)

See course description under 75.317 above.

75.690 Independent Study Project in Interdisciplinary Studies (s 01.00 through 06.00)

See Independent Reading Courses and Study Projects under General Curriculum Information.

75.700 Folger Seminar in Renaissance and Eighteenth-Century Studies (s 03.00)

These seminars are offered each semester. Graduate students who wish to participate should consult the Department of Literature, College of Arts and Sciences.

Learning Center

Correspondence Directory: Charles B. Ferster, *Director*

The Learning Center is a self-contained unit with a small number of students and faculty. It is a place for students who want an alternate style of learning, who want to take responsibility for their own education. The Learning Center style allows a wide range of study areas. Problem-oriented and interdisciplinary study is encouraged. Specialized syllabi in conventional disciplines are also available. The University Learning Center awards a B.A. in Interdisciplinary Studies. This is awarded in the college of the University closest to the major focus of the work of the student, upon the completion of the University requirements of 32 course units including English Composition and Reading I and II (23.100 and 23.101). (See Undergraduate Degree Requirements under General Academic Regulations and Information.) All courses may be taken in the Learning Center.

Faculty and Faculty Associates

The Learning Center faculty derives from the University as a whole, and includes at this time:

Faculty: Stuart Culbertson (psychology), Charles B. Ferster (psychology), Robert R. Hoart (history; Ph.D. candidate), Henning Leidecker (physics), Philleo Nash (anthropology), Barry Reiss (physics; Ph.D. candidate), Philip J. Silverman (psychology)

Faculty Associates: Irene Crowe (sociology; Ph.D. candidate), Phillip Scribner (philosophy)

Admission

Admission to the University Learning Center is available to freshman and transfer undergraduate students. Prospective students are advised to visit the University Learning Center before admission application. A personal interview is required. Where distance imposes a hardship, this may be done by telephone.

Program of Study

The University Center stresses a problem-oriented approach to issues of human and intellectual concern. Units of study are arranged by individual students in consultation with faculty to meet the students' own interests and needs. Units of study use discipline-oriented resources such as: the professional *faculty* of the Learning Center who help with long range and broad issues surrounding the students' learning; *teachers*, who are continually available to assist students with their studies on an informal basis; the other *students* of the Learning Center, who consult and guide each other's learning and who form study groups; *textual material*, arranged in various ways to increase its accessibility to newcomers; *field and laboratory experiences*; *specialized activities*, including home-base groups, plenary sessions, and process groups; *consultants* who are hired on an *ad hoc* basis to support learning in areas where the University Learning Center faculty and teachers are not expert.

The resources may be sharply focused on a particular problem, culminating in a rigorous multi-disciplinary education in that area, or they may be used to support a broad, liberal education.

The faculty and teachers of the University Learning Center, supported by outside consultants, provide an educational environment where most disciplines and problems may be studied. Because of the flexible educational policy of the Learning Center, there are few limits other than students' own interests in the content areas that can be covered. The difference between the University Learning Center and the discipline-oriented department is its flexibility and emphasis on interdisciplinary and problem orientation. Students interested in preparing for specialized courses of study such as medicine and graduate work in technical sciences should be aware of the responsibility for conforming to the admissions requirements that would be anticipated from graduate and professional schools. Graduates of the University Learning Center who have been attentive to this responsibility have gone on to specialized study.

Courses of Instruction

Undergraduate level course values are expressed as *course units* according to the following decimal notations: (c 00.25) = $\frac{1}{4}$ course unit; (c 00.50) = $\frac{1}{2}$ course unit; (c 00.75) = $\frac{3}{4}$ course unit; (c 01.00) = 1 course unit; (c 01.50) = $1\frac{1}{2}$ course units; etc.

Graduate level course values are expressed as semester credit hours according to the decimal notations: (s 01.00) = 1 semester hour; (s 02.00) = 2 semester hours; (s 03.00) = 3 semester hours; etc. There are no fractional semester credit hours.

Undergraduate Courses

79.192 Individual and Group Study (c 00.25 through 04.00)

Freshman level individual and group study developed on the University Learning Center basis to meet the student's interests and needs.

79.292 Individual and Group Study (c 00.25 through 04.00)

Sophomore level individual and group study developed on the University Learning Center basis to meet the student's interests and needs.

79.392 Individual and Group Study (c 00.25 through 04.00)

Junior level individual and group study developed on the University Learning Center basis to meet the student's interests and needs.

79.492 Individual and Group Study (c 00.25 through 04.00)

Senior level individual and group study developed on the University Learning Center basis to meet the student's interests and needs.

Lucy Webb Hayes School of Nursing

DEAN Laura B. Kummer

Philosophy

The philosophy of THE LUCY WEBB HAYES SCHOOL OF NURSING is consistent with the philosophy and purposes of The American University. This consistency is demonstrated in the belief that the basic purpose of the University is the pursuit of knowledge and the nurturing and perpetuation of creative and intellectual activity.

We believe an inherent aspect of education is the development of a person with an understanding of his heritage in relation to society, and a conscious sense of human values and an appreciation of life.

We believe that effective learning occurs when the student is active in the learning process, is motivated in the use of critical thinking and intellectual inquiry and is guided toward seeing meaningful relationships. This learning is manifested in the individual by covert and/or overt change and is most effective when learning experiences are planned to meet the individual needs of students.

We believe that professional nursing consists of dynamically interrelated theoretical and service components. Professional nursing strives to prevent illness and to promote, maintain, and restore health, and, when health cannot be maintained, to continue to meet those needs which support the dignity of the individual.

Purpose

Consistent with the University mission, the program in nursing prepares the student for the practice of professional nursing at a beginning level.

Objectives

To achieve this purpose and in keeping with the definition of professional nursing, the faculty provides opportunities for the student to:

1. Provide direct care to individuals and groups.
2. Develop, test, and validate new methods to improve knowledge and care.
3. Initiate, implement and evaluate care for uncommon and/or complex nursing problems.
4. Organize, coordinate and supervise people involved in the provision of care.
5. Participate as a member of the health team in the planning and delivery of care.
6. Teach the patient, family groups and others involved in health care.
7. Develop the continuing desire to learn.
8. Engage in self-directed study.
9. Participate in professional and community concerns.

School of Nursing

Correspondence Directory: Laura B. Kummer, *Dean*

Full-time Faculty

Professor: Laura B. Kummer
Associate Professor: Josephine Gimble*, Mildred Randall
Assistant Professor: Nancy Davenport, Gita Dhillon, Patricia Finn, Laverne Neiswender
Instructor: Diane Bartoo, Janice Hallal, Gladys Keidel, Judith Sands

*Leave of Absence Fall 1974

Field of Study

The School of Nursing educates students in aspects of the biological, physical and social sciences essential to care for the sick and prevention of illness. The faculty believes that nursing competence depends not only upon sound information and good judgment, but also upon communication skills, an understanding of the dynamics of social interaction and active participation in community concerns. The academic program is based on the assumption that the most effective learning occurs when the student is actively involved in the learning process and motivated to think critically and intelligently.

Undergraduate Degree

Bachelor of Science

Admission

See section on Admissions Information.

Advanced Placement

Applicants may include students of diploma, associate degree and practical nurse programs; Armed Forces Corpsmen and others with work/educational experiences. Those seeking admittance may request information from the School of Nursing.

Health Requirements

In addition to meeting all general University health requirements students are required to keep current immunizations for diphtheria, tetanus, poliomyelitis, and smallpox. Annual skin testing for tuberculosis is required.

Transportation

Students assume responsibility for transportation between the University and various facilities used for laboratory and clinical experience. Students majoring in Nursing will find it desirable to have the use of an automobile during the junior and senior years; it is a necessity during the semester in which students are enrolled in the community health nursing course.

Curricular Plan

FALL SEMESTER

SPRING SEMESTER

<i>Freshman Year</i>					
15.120	Chemistry	1	15.130	Chemistry	1
15.121	Chemistry Lab	¼	15.131	Chemistry Lab	¼
23.100	English Comp.	1	23.101	English Comp.	1
09.101	Gen. Biology I	1		Socl. Science Elective	1
	Socl. Science Elective	1		Other Elective	1
<i>Sophomore Year</i>					
46.200	Nursing I	1½	46.201	Nursing II	2
46.241	Normal Nutrition	½	09.331	Anatomy & Physiology	1
09.330	Anatomy & Physiology	1	46.210	Dynamics of Human Relationships	½
09.340	Microbiology	1	46.220	Dimen. of Professional Nursing	½
09.341	Microbiology Laboratory	½			

Junior Year

46.300	Nursing III	3	46.310	Nursing of Children	2
	Elective	1	46.320	Nursing the Childbearing Family	2
			or		
			46.340	Psych. Mental Health Nursing	2
Senior Year					
46.340	Psychiatric Nursing	2	46.410	Problem Analysis in Patient Care	1
46.400	Community Health Nursing	2	46.420	Organization of Patient Care Services	1
or			and		
46.310	Nursing of Children	2	46.400	Community Health Nursing	2
46.320	Nursing Childbearing Family	2	or		
46.450	Intro. to Research in Nursing	½		Electives	2
			46.450	Introduction to Research in Nursing Elective	½

Minimum—33 courses

Courses of Instruction

Undergraduate level course values are expressed as *course units* according to the following decimal notations: (c 00.25) = ¼ course unit; (c 00.50) = ½ course unit; (c 00.75) = ¾ course unit; (c 01.00) = 1 course unit; (c 01.50) = 1½ course units; etc.

Graduate level course values are expressed as *semester credit hours* according to the following decimal notations: (s 01.00) = 1 semester hour; (s 02.00) = 2 semester hours; (s 03.00) = 3 semester hours; etc. There are no fractional semester credit hours.

Undergraduate Courses

46.200 Nursing I (c 01.50)

Health needs, assessment of nursing needs, and clinical practice in meeting uncomplicated needs of selected patients. Class meets for five class hours, seven clinical hours, and one conference hour each week. *Prerequisite*: sophomore standing, open only to nursing majors.

46.201 Nursing II (c 02.00)

Exploration of selected health problems of adults undergoing medical or surgical therapy. Man's adaptive capacity, his homeokinetic mechanisms, and relevant pathophysiology are discussed. Utilization of the nursing process in administering care to adults is emphasized. *Prerequisite*: 46.200.

46.210 Dynamics of Human Relationships (c 00.50)

A psychodynamic frame of reference is used to examine man's behavior throughout the life cycle. Psychoanalytic concepts relevant to the dynamics of human growth and development are applied to nurse-patient relationships. Principles of group dynamics are applied in small group sessions. (Laboratory component.) *Prerequisite*: 46.200.

46.220 Dimensions of Professional Nursing (c 00.50)

Designed to assist the student to acquire knowledge and understanding of social, educational, and economic trends influencing professional nursing, professional organizations, and legislation. *Prerequisite*: none.

46.240 Nutrition Needs and Modern Food (c 00.50)

Normal nutrition will be studied in relation to the needs of the individual and the demands of the world population. Current social, ecological, and economic problems will be discussed in light of world food needs. Questions about pesticides, food additives, food analogs, "natural" and "organic" foods will all be given consideration. *Prerequisite*: none.

46.241 Normal Nutrition (c 00.50)

An individualized programmed course designed to correlate the laboratory experiences of Nursing I with the study of normal nutritional needs of humans. The student proceeds at own pace, designs own service projects, and contracts for a grade. Open to nursing majors only.

46.242 Normal Nutrition and Human Needs (c 01.00)

Normal nutrition will be studied in relation to the present day food shortages and the needs of the human body. Popular nutrition concepts will be evaluated and the problems of pesticides, food additives, and engineered foods will be given consideration. No prerequisites.

46.300 Nursing III (c 03.00)

Continuation of 46.201. Care of patients whose needs are complicated by disease and who are treated medically and/or surgically. Special consideration to the nurse's role in relation to the total plan of care. Six hours of class, twelve hours of laboratory, one hour of conference. *Prerequisites:* 46.201, 46.210.

46.310 Nursing of Children (c 02.00)

A study of current pediatric nursing care based on the principles of growth and development of the individual from infancy through adolescence in health and illness. Special emphasis is on helping the individual and family cope with the effects of illness. *Prerequisites:* 46.300 and 46.210.

46.320 Nursing the Child-bearing Family (c 02.00)

Family centered nursing care during the maternity cycle. The student has the opportunity to help meet the needs of the family in the pre-, intra-, and postnatal periods. Special emphasis is on teaching and anticipatory guidance. *Prerequisites:* 46.300 and junior standing. Open to nursing majors only.

46.340 Psychiatric Mental Health Nursing (c 02.00)

Psychiatric mental health nursing is viewed as an interpersonal process whereby the professional nurse practitioner assists an individual and/or groups, family or community to promote mental health, prevent mental illness, and help those afflicted cope with the stress of mental illness and assist them toward health. Emphasis is given the therapeutic nurse-patient relationship, psychiatric nursing theory, and principles and their application in the hospital setting and the community.

46.390 Independent Reading Course in Nursing (c 00.25 through 02.00)

See Independent Reading Courses and Study Projects under General Curriculum Information.

46.400 Community Health Nursing (c 02.00)

Community health concepts based on previous knowledge and experience. Emphasis on the role of the nurse in community health programs. Each week eight hours laboratory and three hours class are required. In addition there is scheduled community mental health lecture-discussion and independent study activities. *Prerequisite:* senior standing.

46.410 Problem Analysis in Patient Care (c 01.00)

Problems of patients with complex nursing needs. Students assume increased responsibility for nursing care to meet these needs. Lab experiences primarily in intensive care settings. *Prerequisite:* senior standing.

46.420 Organization of Patient Care Services (c 01.00)

Principles of leadership and group dynamics in the organization of patient care in working with professional and auxiliary personnel. *Prerequisite:* senior standing.

46.450 Introduction to Research in Nursing (c 00.50)

Overview of basic research techniques, terminology, and essential components of research. Each student designs a small-scale research study in the area of nursing care. Supervision is provided in small group seminars. Hours arranged.

46.490 Independent Study Project in Nursing (c 00.25 through 02.00)

See Independent Reading Courses and Study Projects under General Curriculum Information.

Graduate Courses

All courses listed below carry graduate credit. .500 level courses are open to graduate and qualified undergraduate students. Undergraduate students in .500 level courses receive one course unit for 3 or 4 semester hour credits. Courses at the .600 and .700 levels are open to graduate students only.

46.510 Nutrition Education in the 1970's (s 03.00)

The purpose of this course is to discuss with teachers and with students in the field of education the nutritional needs of the human body and the relation of food to learning and behavior. Popular nutrition concepts will be evaluated. Questions about pesticides, food additives, food analogs, vegetarianism, "natural" and "organic" foods will be given consideration. Methods of including nutrition education in already established units of study will be explored. *Prerequisites:* education majors or teachers.

46.590 Independent Reading Course in Nursing (s 01.00 through 06.00)

See Independent Reading Courses and Study Projects under General Curriculum Information.

College of Public Affairs

Dean	Morris W. H. Collins, Jr.
Director, Public Management Programs	Robert P. Boynton
Executive Assistant	August Kursar
Director, Contract and Grant Programs	Emery A. Link
Associate for Program Planning	Susan W. Torrence
Center for the Administration of Justice	
Director	David J. Saari
Administrative Officer	Jenny G. McGough
Law Enforcement Education Program Coordinator	Andrea P. Wilson
School of Government and Public Administration	
Dean	A. Lee Fritschler
Associate Dean for Graduate Programs	Coralie Bryant
Director, Public Administration Programs	Donald G. Zauderer
Director, Washington Semester Programs	David C. Brown
Director, Urban Programs	Bernard H. Ross
Director, Undergraduate Academic Counseling	Joan M. May
School of International Service	
Dean	Robert W. Gregg
Associate Dean	William C. Cromwell
Graduate Academic Counselor	Nancy B. Eddy
Undergraduate Academic Counselor	Elizabeth W. Myers
Center for Technology and Administration	
Director	
Director, Computer Systems Applications Program	Richard A. Bassler
Director, Operations Research Program	Janet M. Malcolm
Director, Scientific and Technical Information Systems Program	Isaac D. Welt
Director, Management Information Systems Program	Walter J. Kennevan
Director, Science/Technology Policy and Administration Program	Lowell H. Hattery
Director, Environmental Systems Management Program	Martha C. Sager

THE COLLEGE OF PUBLIC AFFAIRS is committed to the development and maintenance of distinguished educational and research programs in the field of public affairs. Working through its four components—the School of Government and Public Administration, the School of International Service, the Center for Technology and Administration, and the Center for the Administration of Justice—the College provides the organizational unity required for a comprehensive and conceptually unified approach to the study of public affairs at every level—international, national and local. Each program within the College is designed to serve particular career interests, but all are multidisciplinary, problem and policy-oriented, and uniquely adapted to the opportunities inherent in the metropolitan Washington location.

An education in public affairs prepares students for a rich variety of careers and for more enlightened citizenship. Some graduates will enter service in public or private agencies where they will help shape or implement policy alternatives. Many will teach about public affairs at colleges, universities and secondary schools. Others will merely seek those broader insights which an education in public affairs brings to pursuits not formally related to their degrees.

Public Affairs

Correspondence Directory, Morris W. H. Collins, Jr., *Dean*

Robert P. Boynton, *Director, Public Management Programs*

August Kursar, *Executive Assistant*

Emery A. Link, *Director, Contract and Grant Programs*

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Center for the Administration of Justice

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Martha C. Sager, *Director, Environmental Systems Management Program*

Resources

The College of Public Affairs, drawing on its own facilities, those of The American University, the Washington Consortium of Universities, and the Washington, D.C. community offers a unique combination of resources for study and practical experience in the field of public affairs. With these resources the College is able to offer a comprehensive range of attractive programs leading to degrees at the associate, bachelor, master, and doctoral levels.

The Faculty

The College has more than eighty full-time faculty who bring a wide range of academic disciplines and practical expertise to their teaching duties. Many are nationally recognized scholars. Others have distinguished records of public service. The College augments its full-time faculty with an adjunct faculty which includes eminent governmental officials and other public affairs practitioners who bring to the classroom the special insights gained from the day-to-day experience in the real world of public affairs. With its access to the faculty resources of The American University as a whole, the College of Public Affairs offers the spectrum of subjects and courses available within a major urban university from which students may plan programs best suited to their interests and academic objectives.

The Washington Location

Washington is an excellent laboratory for studying public affairs. The setting provides daily vivid evidence of the interrelationships of domestic and foreign politics and the political, economic, and environmental forces shaping public affairs and public policy both at home and abroad. Students have the opportunity to interact with practitioners in the art of policy making. Internships in private and public organizations lend a practical dimension to the academic programs. Washington's facilities for scholarly research and personal enrichment include such institutions as the Library of Congress, the National Archives, and the Smithsonian Institution, not to mention many specialized departmental and agency libraries.

The Washington Consortium

For a description of the Washington Consortium of Universities see the General Information Section of this catalog. Through this Consortium a student in the College of Public Affairs has access to services offered by some 5,000 faculty members as well as to libraries holding an aggregate of over three million volumes.

Internships in Washington

The College provides many opportunities for qualified students to work for course credit as interns in various government, political and private organizations. These opportunities are designed to give students practical involvement in political processes or action programs. For example, a student might work for a Congressman, Senator, the Department of State or for other organizations directly concerned with domestic or international policy.

Independent Study Projects

The College of Public Affairs encourages students to engage in independent study projects related to their particular field of interest. These usually take the form of reading, research and often field work in the Washington area, and are arranged directly with a faculty member. Course credit is given.

Undergraduate Degrees

Undergraduate students have maximum freedom in planning their own programs to meet personalized learning objectives. They may choose single majors from a number of traditional fields or they may elect combined majors or course sequences in major-related skills which supplement their substantive knowledge. An interdisciplinary major built around a general theme or concept can be developed by the student and his faculty advisors to meet his particular interests and academic goals.

Undergraduate Degree Programs

Associate in Administration of Justice

Bachelor of Arts

- Interdisciplinary Studies
- International Studies
- Language and Area Studies
- Political Science

Bachelor of Science

- Administration of Justice
- Interdisciplinary Studies
- International Studies
- Political Science
- Technology of Management

Admission Requirements

Admission requirements for undergraduate degree programs of the College of Public Affairs are covered in the Admission Information Section of this catalog.

Degree Requirements

Undergraduate degree students are bound by the general undergraduate degree requirements stated in the General Academic Regulations Section of this catalog.

Special Semester Programs

The College of Public Affairs offers a series of special programs, each of which constitutes a full semester's course work. These programs include the Washington Semester, Washington Urban Semester, Foreign Policy Semester and International Development Semester. The Washington Semester is operated through a cooperative agreement with 140 member colleges and universities across the country and, under its auspices, students from those member institutions may attend the other three special semester programs as well. It and the Washington Urban Semester utilize the Washington location for intensive field study and research into aspects of government policy and process. A particularly innovative educational approach is employed in the Foreign Policy Semester and the International Development Semester which

permits a group of students, guided by a team of professors, to devote its entire efforts to a specific topic or theme during a one semester "module." Further information on the special semester programs is contained in the General Information Section of this catalog as well as in the pertinent course description section of the catalog.

Study Abroad

The College of Public Affairs provides opportunities for study abroad ranging from the traditional "Junior Year Abroad" to special programs such as the "Year Abroad in Israel." In addition, the summer sessions include courses, workshops and tours abroad which are relevant to the curricula of the College.

Service to Transfer Students

In cooperation with The Wide Horizons Program of The American University, the College of Public Affairs makes a special effort to assist transfer students from junior and community colleges and from four-year institutions. Each transfer student receives extensive personal attention before and after enrollment in order to ease his transition from the structured environment of the junior and community colleges to the freer system of the University. Every effort is made to provide the student with essential information about programs and to help solve his personal, educational and vocational problems through individualized guidance. The Richard P. Ettinger, Sr. Scholarship and Work-Study Program is an integral and vital element of The Ettinger Wide Horizons Program for Transfer Students at The American University.

Graduate Degrees

The graduate degree programs in the College of Public Affairs serve a number of diverse educational needs. The largest number of master's programs educate for specific professional careers in government and other not-for-profit organizations at all levels including national and international. These programs place an emphasis upon management and analytic skills, and upon the conceptual frameworks necessary for professional success in the public service. Other master's programs provide the student with a general understanding of the academic disciplines related to public affairs. Doctoral level programs designed to equip the scholar for a career in research and higher education are offered in the three fields of Political Science, Public Administration and International Studies.

Graduate Degree Programs

Center for the Administration of Justice

Master of Science in the Administration of Justice

School of Government and Public Administration

Master of Arts in American Politics
Master of Arts in Political Science
Master of Arts in Political Science: Politics and Economics
Master of Public Administration
Master of Public Administration in Urban Affairs
Master of Public Administration in Public Policy
Master of Public Administration in International Affairs
Doctor of Philosophy in Political Science
Doctor of Philosophy in Public Administration

School of International Service

Master of Arts in International Studies
Master of Arts in International Communication
Doctor of Philosophy in International Studies

Center for Technology and Administration

Master of Science in Technology of Management

Center for the

Administration of Justice

Correspondence Directory: David J. Saari, *Director*
Jenny G. McGough, *Administrative Officer*
Andrea P. Wilson, *Law Enforcement Education*
Program Coordinator

Fields of Study

Law enforcement, judicial administration, corrections, and law and society

Full-time Faculty

Professor: Arnold S. Trebach

Associate Professor: Jack Goldsmith, Jeffrey H. Reiman, David J. Saari, Emilio C. Viano

Assistant Professor: Ronald I. Weiner

Instructor: Philip Baridon, William E. Hemple

Adjunct Faculty: (See listings under part-time faculty.)

Administration of Justice Programs

The Center for the Administration of Justice offers a series of integrated educational programs in the administration of justice leading to a Certificate (one year or 8 courses), an Associate (two years or 16 courses), a Bachelor of Science (four years or 32 courses) and a Master of Science degree in the Administration of Justice (30 cr. hrs.). The Center's curriculum provides a unified base of knowledge for students in all institutions operating in the criminal justice system (law enforcement, courts, and corrections). It draws from many perspectives—literature, social sciences, law, humanities, and public administration, among others. Students enrolled in the Center's programs may pursue studies on a full-time or part-time basis, on campus and off campus, either in a degree or non-degree capacity.

The Center was formed by a merger of the Law Enforcement and the Correctional Administration programs. Students originally enrolled in either of these programs will be given the option of completing their program under the regulations in force at the time of their admission or of selecting a new program of study subject to approval by the Director of the Center. New students will be admitted only to the programs described below. For more detailed information, write the Director of the Center for the Administration of Justice.

Undergraduate Certificate in the Administration of Justice

The certificate is designed primarily for part-time non-degree students who do not have current plans to pursue a degree and who are employed by governmental agencies involved in the administration of justice, civil and criminal. The curriculum introduces the student to basic concepts underlying the system for the administration of justice in contemporary American society. Eight courses are required.

FOUNDATION REQUIREMENTS: 4 courses

23.100 Composition and Reading I

23.101 Composition and Reading II

Two courses in the Social Sciences

ADMINISTRATION OF JUSTICE REQUIREMENTS: 4 courses

73.101 Introduction to the Administration of Justice I

73.102 Introduction to the Administration of Justice II

73.201 The Administration of Justice and the Community

73.220 Criminal Justice and the Constitution

Associate Degree in the Administration of Justice

This degree is designed for part-time undergraduate students employed by governmental agencies involved in the administration of justice, civil and criminal. The program introduces the student to many of the legal, social and political problems in the administration of justice and examines the relationship between the various components of the system for the administration of justice. Sixteen courses are required.

FOUNDATION REQUIREMENTS: 8 courses

Of the eight foundation courses required, five must be selected as shown below. The remaining three may be selected from any of the foundation areas.

Composition and Reading I and II (2 courses)

General Science, (at least one course)

Biology
Chemistry
Earth Sciences
Logic
Mathematics
Physics

Humanities (at least one course)

Art
Communication
English (excluding Composition and Reading)
History
Languages and Linguistics
Music
Philosophy and Religion
Performing Arts

Social Sciences (at least one course)

Anthropology
Economics
History (History courses may be counted in either humanities or social sciences, but not both)
Sociology
Psychology
Political Science

CORE CURRICULUM: 6 courses

73.101 Introduction to the Administration of Justice I
73.102 Introduction to the Administration of Justice II
73.150 Social Processes and Deviant Behavior
73.201 Administration of Justice and the Community
73.220 Criminal Justice and the Constitution
73.254 History and Philosophy of Criminology

ELECTIVES: 2 courses**Bachelor of Science in the Administration of Justice**

The Bachelor's degree is designed both for students preparing for careers in the administration of justice and for students already actively engaged in such careers. The core curriculum gives the student a basic foundation in the legal, social and political problems involved in the administration of justice and focuses attention on the relationships between various components of the existing administration of justice system. The major requirements take the student into specific problem areas while maintaining the student's breadth of view of the system as a whole. Thirty-two courses are required.

FOUNDATION REQUIREMENTS: 8 courses

Of the eight foundation courses required, five must be selected as shown below. The remaining three may be selected from any of the foundation areas.

Composition and Reading I and II (2 courses)

General Science (at least one course)

Biology
Chemistry
Earth Sciences
Logic
Mathematics
Physics

Humanities (at least one course)

- Art
- Communication
- English (excluding Composition and Reading)
- History
- Languages and Linguistics
- Music
- Philosophy and Religion
- Performing Arts

Social Sciences (at least one course)

- Anthropology
- Economics
- History (History courses may be counted in either humanities or social sciences, but not both)
- Sociology
- Psychology
- Political Science

CORE CURRICULUM IN THE ADMINISTRATION OF JUSTICE: 6 courses

- 73.101 Introduction to the Administration of Justice I
- 73.102 Introduction to the Administration of Justice II
- 73.150 Social Processes and Deviant Behavior
- 73.201 The Administration of Justice and the Community
- 73.220 Criminal Justice and the Constitution
- 73.254 History and Philosophy of Criminology

MAJOR REQUIREMENTS: 10 courses

Of the ten courses required, at least two courses must be selected from Law Enforcement, two from Corrections, and one each from Judicial Administration and Law and Society. (The remaining four courses may be taken from any of the areas.)

Law Enforcement and Police Administration

- 73.210 Administrative Concepts in Law Enforcement and Public Safety I
- 73.211 Administrative Concepts in Law Enforcement and Public Safety II
- 73.221 Substantive Aspects of Criminal Law
- 73.310 Traffic Planning and Control
- 73.311 Introduction to Forensic Science
- 73.312 Drugs and Society
- 73.313 Organized Crime
- 73.315 White Collar and Commercial Crime
- 73.320 Criminal Procedure
- 73.321 Evidence
- 73.411 Problems in Forensic Science
- 73.510 The Police and the Political System
- 73.511 Innovation in Law Enforcement: Practice and Theory

Corrections

- 73.230 Contemporary Corrections in the United States
- 73.330 Institutional Corrections
- 73.331 Corrections in the Community
- 73.430 Administration of Correctional Institutions
- 73.431 The Prison Community
- 73.532 Innovation in Corrections: Practice and Theory

Judicial Administration

- 73.340 Judicial Administration—Criminal
- 73.341 Judicial Administration—Civil
- 73.440 Data Processing in Judicial Administration
- 73.540 Survey in Judicial Administration

Law and Society

- 73.251 Alcoholism and Society
- 73.253 Juvenile Delinquency and Youth Crime
- 73.265 Introduction to the Logic of Law and Social Science
- 73.351 Individuals, Institutions, and Justice in America
- 73.352 Psychiatry and the Law
- 73.396 Selected Topics in the Administration of Justice
- 73.402 Administrative Justice
- 73.450 Prevention of Crime and Delinquency
- 73.453 Civil Disorder
- 73.454 Violence in America
- 73.455 Etiology of Crime
- 73.456 Crimes Without Victims
- 73.458 The Juvenile and the Law
- 73.463 The Free Press and the Administration of Justice
- 73.465 The American Character and Social Justice
- 73.501 The Concept of Justice
- 73.502 The Concept of Law
- 73.503 Concepts of Social Control
- 73.508 Seminar in the Management of Criminal Justice Agencies
- 73.550 Problems in the Exercise of Institutional Authority
- 73.552 Political Crime
- 73.554 Theories in Criminology
- 73.557 Victimology
- 73.580 Seminar in the Administration of Justice

Independent Study, Research and Internship

- 73.390 Independent Reading in the Administration of Justice
- 73.490 Independent Study Project
- 73.491 Internship

ELECTIVES: 8 courses

Electives may be chosen from any offerings of The American University or the Consortium.

Graduate Degrees

Master of Science in the Administration of Justice

The Master of Science in the Administration of Justice (MSAJ) is designed for pre-service students preparing for careers in the administration of justice; for the continuing education of in-service personnel already actively engaged in such careers; or as foundation work for graduate students intending to pursue further graduate studies in subject matter areas of particular relevance to the administration of justice. Students may choose to specialize in any of the following areas: (1) law enforcement, (2) judicial administration, (3) corrections or (4) law and society.

Admission

See Graduate Admission under Admission Information.

Requirements

For general graduate requirements for a Master's degree see Graduate Degree Requirements under General Academic Information. The student will be required to complete 30 credit hours of graduate work, including a research requirement for six credit hours, and maintain a minimum overall average of B. Twenty-four of the credits must be completed in residence at The American University. The student's program must be approved by his Graduate Advisor.

Eligibility

A background of relevant undergraduate preparation in the social, behavioral, and administrative or managerial sciences is preferred, but not absolutely required. Pertinent work

experience will be considered. The student who is insufficiently prepared, in education or experience, may be asked to take specified undergraduate and/or graduate courses, with or without credit applicable to the graduate degree, depending upon the advice and recommendation of his Graduate Advisor.

MSAJ Course Work

In consultation with his Graduate Advisor, the student will be free to take any courses he chooses as he prepares for a general or specific occupational goal. It is expected that he will take courses offered by the Center, but he may take course work in other departments as well as in the Consortium. In order to receive the degree, however, he must complete at least 24 graduate credits, exclusive of the six required in the areas of research. A student is required to take 73.600, Graduate Survey in the Administration of Justice, and 73.680, Introduction to Social Research, or the equivalent.

Comprehensive Examination

Although the student may, in effect, design his own course work and graduate program, he will be required to take and pass a comprehensive examination designed to test his (a) general understanding of the concepts of law and justice; (b) general knowledge of the administration of justice, including law enforcement, judicial administration, and corrections; and (c) intensive knowledge in one of the following areas of specialization: (1) law enforcement, (2) judicial administration, (3) corrections, (4) law and society. The student will be urged to stipulate area "c" early in his graduate career so that his Graduate Advisor may assist him in the preparation for the comprehensive examination.

Courses of Instruction

Undergraduate level course values are expressed as *course units* according to the following decimal notations: (c 00.25) = $\frac{1}{4}$ course unit; (c 00.50) = $\frac{1}{2}$ course unit; (c 00.75) = $\frac{3}{4}$ course unit; (c 01.00) = 1 course unit; (c 01.50) = $1\frac{1}{2}$ course units; etc.

Graduate level course values are expressed as *semester credit hours* according to the following decimal notations: (s 01.00) = 1 semester hour; (s 02.00) = 2 semester hours; (s 03.00) = 3 semester hours; etc. There are no fractional semester credit hours.

Undergraduate Courses

73.101 Introduction to the Administration of Justice I (c 01.00)

73.102 Introduction to the Administration of Justice II (c 01.00)

Two-semester survey of system for administration of justice in America. First semester gives overview of criminal justice system; police, prosecution, courts, and corrections. Second semester highlights major concerns in contemporary administration of justice: functions of criminal law, assessment of crime, juvenile delinquency and youth crime, organized crime, narcotics and drug abuse, the role of judiciary, civil litigation, institutional and community corrections.

73.150 Social Processes and Deviant Behavior (c 01.00)

Systematic consideration of conformity and deviance within social structures. Nature of interactions between persons and groups which produce deviance. Effects of labeling, an analysis of social problem of community and individual, understanding processes of social control, social task and service system.

73.201 The Administration of Justice and the Community (c 01.00)

Role of administration of justice in life of a community, including impact of community on the system for the administration of justice and the system's response. Community perception of police, courts, and corrections; concepts of community relations and public relations. Community control. Effects of prejudice and discrimination, problems of justice in inner city.

73.210 Administrative Concepts in Law Enforcement and Public Safety I (c 01.00)

Basic principles of administration and management as applied to police function. Emphasis on police organization and management, staff function and police role.

73.211 Administrative Concepts in Law Enforcement and Public Safety II (c 01.00)

Police operations including patrol, investigation, traffic, juvenile, and special operations.

73.220 Criminal Justice and the Constitution (c 01.00)

Constitutional limitations of criminal justice system; its processes; implications of Federal constitutional protection with respect to police investigation, pre-trial, trial, and post-conviction processes, and definition of offenses.

73.221 Substantive Aspects of Criminal Law (c 01.00)

Substantive criminal law emphasizing statutory criminal law against the background of Common Law. Specific offenses against the person, habitation, property, public peace, morality, and the administration of governmental functions. General principles of criminal law including extent to which law attributes criminality to acts or omissions; criminal intent and *mens rea*: attempts, conspiracy, infancy, insanity, and drunkenness. Special defenses, public authority, prevention of crime, self-defense and defense of others, entrapment, mistake and ignorance.

73.230 Contemporary Corrections in the United States (c 01.00)

Survey of current correctional thought and practices in the United States. Evolution of modern correctional practices in the United States. Overview of correctional treatment in different types of institutions and in the community.

73.251 Alcoholism and Society (c 01.00)

Analysis of the alcoholic in terms of social processes which produce him. Society's cultural values, social pressures, response to the alcoholic by the spouse, the family, the legal systems, and effects of such reactions examined. Cross-cultural data used.

73.253 Juvenile Delinquency and Youth Crime (c 01.00)

Development of individual through childhood and adolescence as it relates to delinquency and crime; special characteristics of juvenile and youthful criminality; current principles, policies, and practices for its prevention and control. Factors producing delinquency. Juvenile detention, and juvenile court, training schools, treatment of the offender.

73.254 History and Philosophy of Criminology (c 01.00)

Basic course presenting history of criminological thought, including traditional and contemporary schools of thought.

73.265 Introduction to the Logic of Law and Social Science (c 01.00)

Use and appreciation of forms of logical reasoning and scientific method as applied in the law and in social science to problems of the administration of justice. Specific problems in area of justice illustrating basic principles of logic and applied logic. Includes essentials of basic logic such as induction, deduction, truth, fallacies, argument, and validity, but extends to the application of logic to decision-making and to the scientific method.

73.310 Traffic Planning and Control (c 01.00)

Urban transportation problems, with emphasis on problems of safe and efficient movement of vehicular traffic. Application of systems concepts to traffic planning. Social, economic and political implications of traffic planning. Traffic laws and their administration.

73.311 Introduction to Forensic Science (c 01.00)

Scientific analysis and identification of evidence, identification of documents, special police techniques, interpretation of medical reports, and preparation of reports.

73.312 Drugs and Society (c 01.00)

Examination of processes by which people in various societies come to use "mind-altering substances," including caffeine, alcohol, tobacco, amphetamines, barbiturates, hallucinogens, narcotics. Societal response to drugs and drug use. Assumptions and problems attendant upon identifying drug use as a medical or criminal problem. Social and political meanings of drug abuse and addiction. Rehabilitation, education and other methods of controlling drug use. (Not open to students who have taken Special Problems: Narcotics).

73.313 Organized Crime (c 01.00)

Organized crime in the United States: its impact on society; the need for integrated response by people, government and business. Organized crime as social subculture. Analysis of socioeconomic and political aspects of organized crime, emphasis on internal controls and external relations with various political and economic sectors of society. (Not open to students who have taken Special Problems: Organized Crime).

73.315 White Collar and Commercial Crime (c 01.00)

White collar and commercial crime in America: economic and fiscal implications, enforcement problems, fraudulent association, bankruptcy fraud, monopoly and coercive competitive practices, illegal use of securities and credit cards. Focus on problems of theoretical criminology presented by white collar crime. *Prerequisite:* 73.221.

73.320 Criminal Procedure (c 01.00)

Procedural aspects of criminal law; processes of enforcement, investigation, pre-trial procedure, trial procedure and sentencing, post-trial motions, appeals, reviews, and remedies. Focus on police practices emphasizing arrest, search and seizure, bail, preventive detention, interrogation, right to counsel, incompetency and the insanity defense. *Prerequisite:* 73.220.

73.321 Evidence (c 01.00)

Analysis of the rules of evidence applicable in criminal cases, including: presumptions and inference; direct and circumstantial evidence; real evidence; testimonial knowledge and opinions evidence; character evidence; the hearsay rule and its exceptions; documentary evidence; confessions, admissions and the privilege against self-incrimination; illegally obtained evidence; witnesses and former testimony. *Prerequisites:* 73.220 and 73.320.

73.330 Institutional Corrections (c 01.00)

Systematic analysis of correctional processes in juvenile and adult institutions.

73.331 Corrections in the Community (c 01.00)

Probation and parole supervision concepts, pre-release planning, caseload classification techniques, use of probation case-aides, community treatment centers, neighborhood treatment centers. Auxiliary services such as employment, mental health and vocational counselling.

73.340 Judicial Administration—Criminal (c 01.00)

Management of criminal process to assure all constitutional rights. Administrative relationships of courts with agencies and individuals involved in criminal justice process: defendants; police and criminal investigation agencies; prosecutors and defense counsel; bail agencies; probation officers; correctional agencies. Grand jury procedures. Petit jury procedures. Protection of integrity of judicial process.

73.341 Judicial Administration—Civil (c 01.00)

Problems peculiar to civil litigation: personal injury; probate, small claims, landlord and tenant. Protracted litigation. Devices for narrowing issues and expediting litigation. Alternatives to judicial process for dispute resolution. Judicial management problems: record keeping, calendar management, jury service. Administrative relationships of court to other agencies and to public.

73.351 Individuals, Institutions and Justice in America (c 01.00)

Examination of suitability of our system of justice for dealing with institutions by comparing the present status of institutions and individuals in the system of justice. Criteria for assessing abuses and improvements suggested by the public interest, and legal, political, and research action groups.

73.352 Psychiatry and the Law (c 01.00)

Survey of basic psychiatric principles including contemporary views of causes, manifestations, courses and treatments of psychiatric and behavioral disorders; trends in use of psychiatric resources in dealing with deviant behavior within and without the criminal justice system. Areas examined include incompetence as a bar to trial, insanity as a defense, civil commitment, drug addiction, alcoholism, psychiatry in processing and treatment of juvenile offenders and rehabilitative efforts of corrections system.

73.390 Independent Reading in the Administration of Justice (c 00.25 through 02.00)

Supervised reading in subject matter chosen by instructor and student. See Independent Reading Courses and Study Projects under General Curriculum Information.

73.396 Selected Topics in the Administration of Justice (c 01.00)

Selected topics in various aspects of administration of justice. Each offering is identified by a sub-title. (See current *Schedule of Classes* for specific offerings.) Examples: The Society of the Streets; Poverty and the Administration of Justice; Corruption; Conspiracy; Fundamental Concepts of Social Thought.

73.402 Administrative Justice (c 01.00)

Enforcement of private and public rights and duties by agencies in non-judicial sector of government and by private agencies: social security agencies, welfare agencies, mediation and arbitration groups, housing agencies, rate-fixing authorities, utility commissions. Equality of treatment and due process problems in such agencies. Study of nonjudicial techniques and alternatives in dispute-resolution.

73.411 Problems in Forensic Science (c 01.00)

Detailed examination of specific problem areas involving case studies of investigative techniques, practices and procedures with emphasis on scientific application thereto. *Prerequisite:* 73.311, Introduction to Forensic Science.

73.430 Administration of Correctional Institutions (c 01.00)

Analysis of basic organization and objectives of correctional agency. Specific principles covering the areas of staff development; relationships of treatment, custodial and support staffs; institutional design; and management.

73.431 The Prison Community (c 01.00)

Social organization in correctional institutions. Inquiry into nature, organization, and aims of the penal system and its effect on groups with which it deals. Interaction between groups within institutions.

73.440 Data Processing in Judicial Administration (c 01.00)

Introduction to concepts of data organization and processing; their application to judicial administration; and survey of capabilities and limitations of computer technology in judicial administration and court management including large volume transactions, jury management, docketing, calendar management, assignment and legal research.

73.450 Prevention of Crime and Delinquency (c 01.00)

Concept of prevention, programs of prediction, sources of data on high delinquency and criminality areas, community action projects as preventive services.

73.453 Civil Disorder (c 01.00)

Close study of the Report of the National Advisory Commission on Civil Disorders. Historical review of civil disorders in the United States; issues involved, actions taken in response to disorder, ultimate resolutions of issues. Special implications of contemporary disorders for system for administration of justice in the United States.

73.454 Violence in America (c 01.00)

Analysis of violence in America with emphasis on various ideologies and events that bring about or slacken violence, such as social movements, depressions, war, and political repression.

73.455 Etiology of Crime (c 01.00)

Analysis of contemporary theories of the economic, political, social and psychological factors contributing to deviance, including poverty, cultural deprivation and conflict, alcoholism and drug addiction, sexual deviation, social and political injustice, gambling and political corruption.

73.456 Crimes Without Victims (c 00.25 through 01.00)

Selected topics pertaining to crimes without victims. (See current *Schedule of Classes* for specific offerings.) Examples: Gambling; Sexual Deviation; Prostitution.

73.458 The Juvenile and the Law (c 01.00)

Special legal status of the juvenile. Protective services. Incompetence to enter contracts. Compulsory education. Child labor laws. *In loco parentis* actions by state and private institutions. The juvenile and family court movement, with emphasis on the non-criminal aspects of administration of juvenile justice: guardianship, dependency, neglect, child support, paternity, adoption.

73.463 The Free Press and the Administration of Justice (c 01.00)

Examination of constitutional guarantee of freedom of press as it pertains to special problems in administration of justice. Free press and law enforcement, fair trial, correctional processes. Problems of administrative secrecy, national security, right to privacy.

73.465 The American Character and Social Justice (c 01.00)

Inquiry into influence of America's values upon its system of justice with view to assessing its capacity to meet contemporary demands for social justice under the present system. Analysis of contemporary conflict between law and the social order.

73.490 Independent Study Project in the Administration of Justice (c 00.25 through 02.00)

Research on a topic agreed upon by the instructor and the student. See Independent Reading Courses and Study Projects under General Curriculum Information.

73.491 Internship (c 00.25 through 02.00)

Provides students with actual experience in administration of justice through assignment to enforcement, judicial, or correctional agencies under joint supervision of agency officials and university instructors.

Graduate Courses

All courses listed below carry graduate credit. .500 level courses are open to graduate and qualified undergraduate students. Undergraduate students in .500 level courses receive one course unit for 3 or 4 semester hour credits. Courses at the .600 and .700 levels are open to graduate students only.

73.501 The Concept of Justice (s 03.00)

Major philosophical contributions to definition of justice. Attempts are made to analyze relationship of ideal of justice to concrete situations in which issue of justice (civil, criminal, or political) arises.

73.502 The Concept of Law (s 03.00)

Analysis of major philosophical approaches to problem of meaning, function, and necessity of law in society. Concept of law in society. Concept of law is examined in its relationship to values, custom, power, and social change, as well as to social theory.

73.503 Concepts of Social Control (s 03.00)

Empirical and philosophical evaluation of theories of control of deviance in society. Justification of society's right to punish its members, problem of punishment vs. reform, as well as theories of rehabilitation, are among issues examined.

73.508 Seminar in Management of Criminal Justice Agencies (s 01.00 through 03.00)

Selected topics in management of criminal justice agencies. (See current *Schedule of Classes* for specific offerings.) Examples: Executive Development; Training Programs in Criminal Justice Administration; Professionalization; The Role of the Supervisor and Middle Manager; Utilization of the offender as Agency Manpower.

73.510 The Police and the Political System (s 03.00)

Analysis of police function as an instrument of public policy in the United States. Relationship of police to public and private agencies. Constitutional and pragmatic limitations on law enforcement problems of federalism; policy discretion and selective enforcement, minimum standards, community control, political feasibility. Relationship of the police function to social and economic policy. Due process as a requirement for ordered liberty.

73.511 Innovation in Law Enforcement: Practice and Theory (s 03.00)

Systematic review of theories underlying attempts at innovation in law enforcement in highly urbanized and metropolitan communities, with special attention to technologically based programs, deployment of specialists, training programs, and utilization of advances in the social and applied sciences.

73.532 Innovation in Corrections: Practice and Theory (s 03.00)

Persistent trends in contemporary corrections; pressures for change, centers of change; case studies of innovation.

73.540 Survey in Judicial Administration (s 03.00)

Survey of judicial systems with particular stress on urban court problems. Focus with national perspective upon (1) descriptive analysis of judicial systems and their legal, social and political environments, (2) analysis and discussion of social, legal and political issues related to judicial systems, (3) review of basic trends in this sector of government. Judicial officers are invited to participate in discussions.

73.550 Problems in the Exercise of Institutional Authority (s 03.00)

Designed to develop participant's insight into problems of authority relationships at work in institutions. Emphasis given to the inter-relations of objectives, structures, inter and intra-group dynamics and their effects upon personal and organizational growth and development. Focus of learning is upon the problems encountered in the exercise of authority, based on competence, power, or both, and the individual's and institution's responsibility.

73.552 Political Crime (s 03.00)

Conceptual, sociological, and historical study of crimes in the political realm, such as revolution, assassination, espionage, as well as acts of civil disobedience and protest. An attempt is made to understand significance and sources of contemporary political crime, and response to it.

73.554 Theories in Criminology (s 03.00)

Historical and analytical review of theories in criminology and their relationship to contemporary ideas.

73.557 Victimology (s 03.00)

Intentional and unintentional behavior of victims of offenses that trigger their own victimization and other relationships to criminal acts are explored. Historical review of victimology as a special area of study in criminology, the current status of academic studies, and United States and foreign legislative and non-judicial programs concerned with the victims of crimes also receive consideration.

73.580 Seminar in the Administration of Justice (s 03.00)

Consideration of major problems encountered in the Administration of Justice (See current *Schedule of Classes* for specific offerings). Examples: Protest in Contemporary Urban Society; Theories of Prejudice and Discrimination; Social Justice in a Planned Society.

73.590 Independent Reading in the Administration of Justice (s 01.00 through 06.00)

Reading in subject matter chosen by instructor and student. See Independent Reading Courses and Study Projects under General Curriculum Information.

73.600 Graduate Survey in the Administration of Justice (s 03.00)

Major problems involved in administration of justice in the United States. Emphasis on relationships between major components of the system for the administration of justice: police, courts, and corrections.

73.602 Comprehensive Law Enforcement Planning (s 03.00)

Application of planning concepts to development of comprehensive law enforcement plans under the Omnibus Crime Control and Safe Streets Act of 1968. Integration of plans of police, judicial, and correctional agencies into comprehensive crime reduction plan. Identification and definition of objectives. Identification and comparison of alternative courses of action. Resource analysis. Cost-benefit analysis. Identification and quantification of outputs. Criteria for program evaluation. Use of models.

73.603 Community Control of Law Enforcement (s 03.00)

Research seminar to develop information on various means being used in the United States to assert and maintain community control over law enforcement agencies, particularly major urban police departments. Police review boards, civilian advisory councils, police-community relations programs. Police reaction to civilian review. Related problems of community control of other bodies of local government, such as school boards, street and park commissions, zoning boards, planning commissions. Public review of judicial performance.

73.608 The Institutionalization of Juvenile Justice Services (s 03.00)

Exploration of social organization of juvenile justice programs from an interactionist perspective. Historical review of purposes and practices of programs, such as in law enforcement and juvenile courts, and ways in which they can contribute to increase in crime and delinquency as opposed to their reduction. Organizational goals, theory of the office, informal organizations within organization, and personal belief systems of organizational members are examined as they affect the delivery of services and sacrifice of clients in process.

73.615 Comparative Police Systems (s 03.00)

Critical comparative study of different police systems in the United States with those of selected industrialized foreign countries; includes administration, organization, objectives, and principal functions. Analysis of types and levels of controls over police function and relationships of police to the people. Public and police perception of police role within various police systems.

73.616 Intergovernmental Relations in Law Enforcement (s 03.00)

Constitutional bases for distinction between federal, state, and local law enforcement functions. Cooperation and conflict in subject-matter areas of shared enforcement responsibility. Comparative organization of state and federal enforcement agencies. Federal support activities, including enforcement, technical, and information services. Federal program assistance under Omnibus Crime Control and Safe Streets Act of 1968.

73.621 The Constitution and Police Administration (s 03.00)

Constitutional standards and police practices. Contrast between "due Process" and "crime control" models of criminal justice system. Analysis of Supreme Court decisions on arrest, search and seizure, wiretapping and eavesdropping, entrapment, interrogation and confessions, lineups.

73.622 The Constitution and Criminal Procedure (s 03.00)

Constitutional standards and operation of the criminal justice system, excluding police practices. Bail, decision to prosecute, scope of prosecution, grand jury proceedings, preliminary hearings, right to counsel, right to speedy trial, plea bargaining, discovery and disclosure, jury trial, trial by newspaper, double jeopardy, post-trial proceedings.

73.630 The Law of Corrections (s 03.00)

Process of law from conviction to release from restraint in its relation to correctional principles and practices. Included are the following: function of the courts, probation, corrections, parole; civil rights of convicted and restoration of those lost, and procedures relating to commitment, fines and writs.

73.632 Correctional Decision-Making (s 03.00)

Decision-making as a problem-solving process by managers and workers in correctional setting are described and analyzed, with particular attention to reciprocal relationship between the decision-maker and his organization. Attributes of decision-maker and offender, as well as techniques of organizational adaptation, and environmental variables which may influence the decision-making process are explored.

73.635 Comparative Correctional Systems (s 03.00)

Current approaches in control and treatment of juvenile and adult offenders in the United States and other countries.

73.636 Administrative Management in Corrections (s 03.00)

Identification and analysis of problems and issues confronting the manager in the correctional setting. Styles of management, decision-making, and problem solving are explored. Laboratory method of learning utilized; therefore, enrollment is limited.

73.637 Interviewing and Counseling in Criminal Justice (s 03.00)

Purpose and principles of effective interviewing. Analysis of individual problems in social functioning and the process of problem solving with criminal justice clients. Emphasis placed on learning to help unmotivated involuntary clients.

73.638 Group Counseling in Corrections (s 03.00)

Analysis of major theoretical models for understanding group behavior in correctional settings.

73.639 Practicum: Seminar in Group Relations (s 03.00)

Advanced course designed to provide practical experiences for criminal justice students and to learn about their own and others' behavior in group situations.

73.646 Understanding Organizational Behavior (s 03.00)

Concepts and tools derived from disciplines of Cultural Anthropology, Social Psychology, Sociology and Psychoanalysis are utilized to enhance student's understanding of behavior at work, both intra- or inter-organizationally, e.g., in business, church, government, hospitals, industry, prisons, schools, military, labor unions, etc.

73.652 Sociology of Law (s 03.00)

Consideration of how social values and preferences are embodied in law, both substantive and procedural. Law as diagnostic tool to uncover structural preconditions which are generally tacit or less readily observable. Comparative data and cross-cultural information will be used.

73.660 Civil Rights Enforcement (s 03.00)

Critical evaluation of the adequacy of mechanisms which have been developed for assurance of civil rights in contemporary America. Enforcement problems pertaining to the administration of justice, voting, equal employment, housing, public facilities, public accommodations, and educational opportunity.

73.665 Problems in Legal and Social Scientific Methodology (s 03.00)

Critical comparison of legal and social scientific methodologies with emphasis on their future as complementary procedures for understanding and articulating social justice. Object of the course will be to suggest improved bases for legal and social science approaches to problems of justice.

73.680 Introduction to Social Research (s 03.00)

Introduction to social research methods as applied to administration of justice. Emphasis is on basic assumptions underlying social science research methods and role of social research in analysis, interpretation, and clarification of problems of the justice system. Also deals with design and execution of research projects, including analysis of relationship between researcher and those he studies. Introduction to scientific method in development of social theory and solution to social problems.

73.681 The Role of Research in Criminal Justice Administration (s 03.00)

Basic aims, processes, and limitations of research in criminal justice agencies are explored in order to acquaint those with managerial and supervisory responsibilities with appropriate place and function of agency-based research. Techniques for development and supervision of in-house research and control over outside researchers who come into the organization are examined in terms of organizational maintenance and philosophy, ethics, and appropriate utilization and control over the dissemination of research findings.

73.690 Independent Study Project in the Administration of Justice (s 01.00 through 06.00)

Research on topic agreed upon by the instructor and the student. See Independent Reading Courses and Study Projects under General Curriculum Information.

73.691 Internship (s 01.00 through 06.00)

Provides students with actual experience in administration of justice through assignment to enforcement, judicial, or correctional agencies under joint supervision of agency officials and University instructors.

73.775 Seminar in the Administration of Justice (s 03.00 through 06.00)

Consideration of major problems, encountered in Administration of Justice (See current *Schedule of Classes* for specific offerings). Examples: Problems in Judicial Administration; Alternatives to Use of the Judicial Process; Concepts of Justice. *Prerequisite:* permission.

Government and Public Administration

Correspondence Directory: A. Lee Fritschler, *Dean*

Coralie Bryant, *Associate Dean for Graduate Programs*

Donald G. Zauderer, *Director, Public Administration Programs*

David C. Brown, *Director, Washington Semester Programs*

Bernard H. Ross, *Director, Urban Programs*

Joan M. May, *Director, Undergraduate Academic Counseling*

Fields of Study

Political theory, American politics, comparative politics, public policy, public law, urban politics, organizational theory, governmental management

Full-time Faculty

Professor: Robert P. Boynton, Robert E. Cleary, Morris W. H. Collins, Jr., Chester B. Earle, A. Lee Fritschler, Charles H. Goodman, Jerome J. Hanus, Lowell H. Hattery, Martin Meadows, Emmet V. Mittlebeeler, Amos Perlmutter, Nathaniel S. Preston, Edgar S. Robinson, Harold H. Roth, Morley Segal, Richard G. Smolka, Lois Torrence, Millidge P. Walker

Associate Professor: J. Carl Akins, Matthew Bonham, Coralie Bryant, David Koehler, Ruth A. Lane, Harvey Lieber, Howard E. McCurdy, Bruce F. Norton, David J. Peterson, Bernard H. Ross, Glynn L. Wood, Donald C. Zauderer

Assistant Professor: David Cortland Brown, Susan Hammond, Laura Irwin, Bertrand Y. Kobayashi

Professor Emeritus: Richard M. Bray, George P. Bush, Earl H. DeLong (Dean Emeritus)

Undergraduate and Graduate Programs

THE SCHOOL OF GOVERNMENT AND PUBLIC ADMINISTRATION emphasizes and uses the special opportunities of the Washington, D.C. location for the teaching and study of these subjects.

The School's undergraduate program will contribute an understanding of government and public affairs as an aspect of a broadly cultural education. It will prepare the American student for an enlightened role in American national and community affairs. This program may be a professional education for entrance upon a career in public affairs at a junior professional level. It will provide a solid and comprehensive foundation for the student who pursues further education before entering a career in public affairs or politics, governmental administration, or in teaching or research in these subjects.

Its graduate program is an opportunity for intensive academic or professional education for a career of teaching, research, or action in the fields of politics, government, or public administration. The master's and doctoral programs in political science emphasize the contemporary view of the theory and methodology in this field, as well as the value goals and functioning processes of political systems and institutions. The master's and doctoral programs in public administration, public policy, and urban affairs emphasize the broad social and governmental context of public policy and public administration, the managerial dynamic and the new technological tools of its processes, with opportunities to specialize among these perspectives.

Undergraduate Degrees

Bachelor of Arts

and

Bachelor of Science in Political Science

This program leads to the degree of Bachelor of Arts or Bachelor of Science in Political Science. It is available through registration in the School of Government and Public Administration (SGPA).

Composition and Reading Requirements

See Undergraduate Degree Requirements under General Academic Regulations and Information.

POLITICAL SCIENCE MAJOR

Requirements

This program for the political science major is outlined here in four parts and given in detail in the full undergraduate curriculum following:

- I. Required Courses (two of the following)
 - 33.201 Introduction to World Politics (an SIS course)
 - 53.101 Introduction to Political Theory
 - 53.102 Introduction to Comparative Politics
 - 53.150 Introduction to American Government and Politics
- II. Areas of Study (six courses selected from the following areas, including a requirement of at least one and not more than two courses from Section E)
 - A. Political Philosophy (53.31 series)
 - B. American Government and Political Behavior (53.32 series)
 - C. Comparative Government and Politics (53.33 series)
 - D. Government and Public Policy (53.34 series)
 - E. Topic or Seminar courses in each of the above Areas of Study
 - F. Other special SGPA courses

56.100 Washington Summer Seminar (Offered for advance college credit to High School juniors and seniors). Provides one half course credit applicable to the major.

56.410, 56.411, 56.412 The Washington Semester. (Available only by selection. All three units required if this is taken. Counts as three courses toward the general Bachelor's degree requirement of 32 courses, but only as two courses toward this political science major program.)

56.413, 56.414, 56.415 The Washington Urban Semester. (Available only by selection. All three units required if this is taken. Counts as three courses toward the general Bachelor's degree requirement of 32 courses, but only as two courses toward this political science major program.)

- 52.390 Independent Reading Course in Government
- 52.490 Independent Study Project in Government
- 52.491 Undergraduate Internships in Government and Politics
- 52.398 Honors Reading in Political Science
- 52.399 Honors Field Research in Political Science
- 52.498 Honors Seminar in Political Science
- 52.499 Honors Research in Political Science

INTERNATIONAL RELATIONS (Courses offered by the School of International Service)

Political science majors may count up to three such courses, in addition to 33.201, as part of their major and related requirements. Students taking two SIS courses under major are limited to one SIS course under Related Social Sciences.

III. Related Course Requirements (seven courses):

Seven courses chosen from the fields of anthropology, economics, history, international relations (see II G above), psychology, sociology, statistics, administration of justice, and data processing. No more than two (2) courses may be taken in any one of the listed fields for application to the political science major requirement. Courses from other disciplines may be counted as related courses with the approval of the Director of Undergraduate Academic Counseling.

Honors Program

By student application, and by selection by the Associate Dean of SGPA early in the student's junior year, political science majors may take two honors courses, one the second semester of the junior year and the other the first semester of the senior year or, with the approval of the Director of Undergraduate Academic Counseling, they may be taken concurrently in the same semester. With successful achievement, such students will receive their Bachelor's degrees with Honors in Political Science.

For selection, the student must have, in course work taken prior to the selecting decision,

a 3.00 grade point average in all course work, and a 3.25 grade point average in all course work taken under the requirements of this political science major program structure.

URBAN AFFAIRS MAJOR

The College of Public Affairs offers an Urban Affairs Major for undergraduates. This major encourages students to develop their program from a variety of options in the fields of anthropology, economics, business administration, history, political science, education, international relations, and technology and management.

Students may elect a double major by combining their urban affairs program with a major in one of the University's other teaching units. Members of the Urban Affairs Advisory Committee will also assist students in developing skill areas in such fields as: communications, statistics, data processing, and environmental management.

Each Urban Affairs major will work as an urban intern in a public or private urban oriented agency.

PROGRAM

- I. Introduction (Optional) (1)
Introduction to Urban Affairs
- II. Foundation Courses (4)
(Students must select 2 courses from group A and any 2 others.)
 - A. 53.324 Metropolitan Politics
29.326 The City in History I
29.327 The City in History II
19.315 Urban Political Economy
65.445 Contemporary Communities
 - B. 73.201 Administration of Justice and the Community
31.571 Ecology and the Human Environment
21.427 Inner City Education
03.336 Social Structure
11.470 Urban Development
- III. Core Courses (4)
Urban Internship (2)
Research Methodology
Urban Seminar
- IV. Major Related Courses (7)
- V. Urban Semester (4)
(Students may register for this in lieu of 2 major related courses, the Urban Seminar and one internship course.)

Graduate Degrees

Degree Programs Available

The School of Government and Public Administration offers the following graduate degree programs:

Master of Arts in American Politics
 Master of Arts in Political Science
 Master of Arts in Political Science: Politics and Economics
 Master of Public Administration
 Master of Public Administration in Urban Affairs
 Master of Public Administration in Public Policy
 Master of Public Administration in International Affairs
 Doctor of Philosophy in Political Science
 Doctor of Philosophy in Public Administration

General Program Concepts

The M.A. degree in political science is composed of three programs. The traditional M.A., which is conceived as the beginning specialization and foundation for doctoral level study, and two more specialized programs which may be undertaken as terminal degrees. One of these degrees, the M.A. in American politics, is designed for those who desire greater skills in congressional affairs, legislative process, campaigns, and elections. The M.A. in politics and

economics enables students to develop skills in two areas and to enhance their problem solving capabilities and substantive knowledge in both fields. To ensure competence in methodology, every entering candidate to the M.A. programs must take the six hour course 53.611 Conduct of Political Inquiry and Research I.

The four M.P.A. programs—Public Policy, Urban Affairs, Public Administration, and International Affairs—are designed for those who need graduate work for objectives other than preparation for an academic career. These programs are fully academic in quality but prepare students with widely differing backgrounds with the substantive knowledge and technical skills for managing programs and institutions. The *Master of Public Administration* program provides the student with the fundamental concepts and tools of management as well as an understanding of the relationships between management concepts and public policy. The *M.P.A. in Urban Affairs* is an interdisciplinary curriculum for the preparation of urban administrators, researchers, and scholars. It includes the study of urban politics and administration and the opportunity for substantial work in related social science and legal fields. The *M.P.A. in Public Policy* program is designed to provide the student with the substantive conceptual foundations for policy analysis and evaluation as well as an opportunity for systematic inquiry into the impact of science and technology on both national and international communities. The Master of Public Administration in International Affairs is designed for students who contemplate or who are pursuing careers in the administration or management of international programs. Such careers may be with government agencies, international organizations, or private associations. This degree combines emphasis upon management skills, policy-making and administrative processes, and substantive issue areas of foreign policy and international relations. Students who complete an M.P.A. program will be well prepared to continue into doctoral work, if otherwise admissible, but will have to make up the requirement of the nine-hour bloc of methodology courses entitled *The Conduct of Political Inquiry and Research*.

The Ph.D. programs are intentionally theoretic in emphasis and orientation, in the sense that they are designed as preparation for graduate-level college teaching and research. Coincidentally, they are intensive professional specializations which apply to the operations of government and political affairs as well as to teaching and research.

Time Limits for Transfer of Credit

Unless it was part of a completed degree program, graduate work taken more than ten years before admission or readmission will not be applied or accepted by transfer.

Maintaining Matriculation

If any student has been inactive for more than five years, he may normally expect to have to retake comprehensive examinations, even if previously passed, and he may be required to retake some or all of the course requirements for this program. Maintaining Matriculation status may be achieved by annual registration, in the fall semester, through the Office of the Registrar.

Master of Arts and Master of Public Administration

General Requirements

See Graduate Degree Requirements under General Academic Regulations in this *Catalog* for the Master's degree program. The following requirements also apply to the SGPA Master's level programs.

Eligibility

Candidates applying for admission to the M.A. or M.P.A. programs are evaluated on a competitive basis. Normally this will be a B average or better in their last 60 hours of undergraduate course work. Subject to a 20% ceiling, provisional admission may be granted on a lower undergraduate record or on the basis of 12 hours with a better-than-B average in relevant graduate-level work. The Graduate Record Examinations are not required for the Masters' Program but are recommended for superior students who wish to be considered for financial assistance.

For students who are not admissible to these Master's programs or who do not wish to seek a Master's degree, the College of Continuing Education offers a graduate certificate program in Urban Affairs. See CCE. For an applicant who has failed to meet the requirements for admission to a Master's program, an impressive performance in a certificate program will be a basis for reconsideration.

Minimum Course and Symposia Requirements

These Master's degree programs require a minimum of 33 and 39 graduate hours respectively, not including any courses which may be taken as foundation or prerequisite requirements.

For the MASTER OF ARTS: 53.611: *Conduct of Political Inquiry and Research I* (six hours); three courses and one symposium in the first field of specialization and four courses or seminars in the second field of specialization (24 hours); either 53.613, *Conduct of Political Inquiry and Research II*, or a graduate Political Philosophy course; and for students without six hours of undergraduate political science, 53.660, *Political Institutions and Behavior* (three hours). Total: 33 or 36 hours.

For MASTER OF PUBLIC ADMINISTRATION specializing in Public Policy, Urban Affairs and Public Administration: Core requirements—54.600: The Administrative State (3 hours); 53.610: Research for Management (3 hours); two courses from the following; 54.680: Urban Policy; 54.670: American Public Policy; 53.672: Law and the Administrative Process; and 54.673: Science, Technology, and Government: Interactions and issues. Five courses must be taken in the major field and four courses in the minor field. (See Comprehensive Fields for Specialization.)

For Master of Public Administration in International Affairs: Core requirements—54.600: The Administrative State (3 hours); 53.610: Research for Management (3 hours); 54.670: American Public Policy (3 hours); 54.619: Administration of International Programs (3 hours); SIS 33.580. Five courses must be taken in the major field and four in the minor field. The major field must be either 54.70—*Organization Theory and Behavior* or 54.71—*Governmental Management*. The minor field may be selected from among the following fields offered by the School of International Service: International Relations, International Law and Organization, International Communication, U.S. Foreign Policy and Regional International Systems. Alternatively, with the permission of the student's advisor and the Dean of SIS, the minor field may be a combination of courses from these fields and courses from additional fields where appropriate.

M.A. and M.P.A. Internship Options

A student may take an internship of 3 or 6 credit hours. If the internship is for 3 credits it will count as one course in either the major or minor field. If taken for 6 hours, the credit will be distributed equally between the two fields.

M.A. and M.P.A. Comprehensive Examination Requirements

All M.A. and M.P.A. programs require two fields of specialization, with one written examination in the first field to be taken at the end of the student's program. Examinations are scheduled in November, April, and July. See Office of the Associate Dean for exact dates.

M.A. and M.P.A. Research Requirements

Every M.A. and M.P.A. student will submit to the Associate Dean a research paper which he considers to be his best research effort in a graduate course at The American University.

Advisory Relationships

Each Master's degree student will consult with the Office of the Associate Dean for Graduate Programs for advice and assistance in his program. But the student, eventually, is expected to select a faculty adviser as appropriate to his interests and objectives.

Appellate Procedures: SGPA has a faculty-student committee which hears appeals by students from decisions made by faculty or administrators concerning academic regulations. See the Associate Dean for further information.

Doctor of Philosophy

General Requirements

See Graduate Degree Requirements under General Academic Regulations for the general University requirements for the Ph.D. degree. The following requirements, in addition, apply generally to the SGPA Ph.D. programs.

Application

Applicants for Ph.D. programs will be considered and admitted only for the fall term of each year. February 1 is the deadline for application for admission for the following September. Applicants must have taken the verbal and quantitative Graduate Record Examinations.

Preference will be given to applicants for full-time study, with selective admission for basically part-time study. While the highly qualified part-time Ph.D. student may be admitted

in exceptional cases, he will be expected to devote one year to full-time course and seminar study at some point during the first three academic years after admission.

All applicants, and especially those who intend part-time effort, should be aware that these SGPA doctoral programs will be demanding undertakings. Only those who are very strongly motivated should apply.

The Criteria of Admission

The normal minimum for consideration: At least a 2.5 average on a 4.0 scale in the last 60 hours of undergraduate work, and a Master's degree with a better-than-B record. However, admission is granted competitively by selection of a limited number of the best applicants and the recent cut-off point on such admissions has been approximately a 3.5 average in a Master's program. For applicants who are exceptional in some compensating respect, provisional admission will occasionally be granted on records which do not meet these standards.

Advisory Relationships

Each doctoral degree program student must participate in a teaching and research practicum. This practicum (see 53.712 below) will provide the student with a range of professional experience: assisting in research, supervisory internships, and teaching undergraduate courses. Through participation in this practicum, students will also consult with the Associate Dean for Graduate Programs for advice and assistance with their programs.

Foundation Course Requirements

A relevant academic foundation in undergraduate and Master's programs is preferred but not required. The minimum course and seminar requirements stated below presume such foundations. The student who comes without them will be required to take substantially more than such minimum requirements, including the possibility of special or undergraduate preparatory courses with no graduate credit.

Minimum Courses and Seminars

The doctoral programs in the School of Government and Public Administration have been developed to ensure the education of competent scholars, not to satisfy simply an arithmetic accumulation of credit hours. While the minimum requirement is 60 hours of graduate work, the more significant criterion is the adequacy of the student's preparation for his comprehensive examinations. This may mean the need for more than 60 hours of graduate work.

As a minimum, the Ph.D. student must satisfy the equivalent Master's degree requirements. All doctoral students must take the 9 hour block of courses entitled, *The Conduct of Political Inquiry and Research*. In addition, each student must show the equivalent of one graduate course in political philosophy and must take one symposium in each of his three examination fields. To satisfy the symposium requirement, a grade of B or better is needed.

Except for these requirements and the 60 hour minimum, each doctoral student will be the judge of his own need for any particular course in any of his fields.

Quality Requirement

An average of better-than-B in all graduate work is required. This is higher than the University requirement of 3.0 for required good standing and will normally be interpreted as a requirement of 3.25 or better.

Advancement to Candidacy

The student must apply for advancement to candidacy no later than the semester in which he completes 18 hours of graduate work in his doctoral program, including the bloc of courses entitled *Conduct of Political Inquiry and Research*. Passage of this 9 hour bloc of courses with grades of B or better and of an external examination over the material is the minimum qualification for advancement to candidacy. In addition, the student must maintain the quality requirement and he may be asked to sit for an oral examination. His program may be terminated at this point if the dean and faculty conclude that he does not show high probability of completing the program with high, not minimal, performance.

Doctoral Comprehensive Examinations

The comprehensive examination fields are listed below along with other programs of concentration. The student must take a written examination in each of three comprehensive examination fields and an oral examination which covers all three of the fields. One member of the student's advisory committee will sit on the student's oral examination as well as one member from each of his examination fields. This oral examination is entirely separate from

the later oral defense of dissertation. It should be noted that the student is required to select a fourth field of concentration, which may or may not be from one of the listed examination fields. The student must take a minimum of 9 hours of graduate work in this field with a B average. Students are encouraged to select a field from outside SGPA. Examinations are scheduled in November and April. See the Office of the Associate Dean for exact dates.

Tools of Research

Two tools of research are required to be certified through proficiency examinations or by completion of specific courses as prescribed by the administering department. SGPA students must certify one tool, at least, before admission to comprehensive examinations is granted. The other tool must be certified before final approval of the dissertation proposal.

For the Ph.D. in Government, statistics is presumptively required as one of the two tools. This can be satisfied by passing the SGPA course and examination in quantitative methods in political science. The other tool may be a foreign language, mathematics or educational and psychological tests and measurements, or computer systems. Both tools may be satisfied by demonstration of high proficiency in statistics and/or mathematics.

For Ph.D. students in Public Administration, statistics and mathematics are presumptively required as the two tools.

For strong reasons, the Dean may approve a substitution for the presumptive tool requirements.

Dissertation and Oral Examination

A dissertation is initiated by the submission of a dissertation proposal by the candidate and approval of the proposal by the Dean. The subject of the dissertation will normally be expected to lie within the boundaries of one of the candidate's four fields of specialization.

The basic standard is that of a high quality of original research directly relevant to the student's doctoral program. A proposal may be rejected for unacceptability of subject, inadequacy of the proposed concept and approach of the research, or because there is no full-time SGPA faculty member who is academically competent and available to supervise the project as proposed. If a candidate is unable, after three attempts, to obtain approval of a dissertation proposal, his candidacy may be terminated at that time for that reason.

After approval of the proposal, the dissertation is undertaken through registration for 12 hours of dissertation seminar and under the supervision of a dissertation committee appointed by the Dean. The dissertation committee determines whether or when the candidate has completed a dissertation which is acceptable for final oral examination. If, in the judgment of the committee, the candidate is unable to do so after full effort and opportunity, the committee may recommend to the Dean that his candidacy be terminated for this reason.

When the committee accepts a completed dissertation for oral examination, it may include in the candidate's examination the field of study of which the dissertation is a part. After the oral examination, the committee determines conclusively whether the dissertation and the examination are accepted as satisfactory completion of the candidate's Ph.D. program requirements, what further conditions must be met by the candidate for satisfactory program completion, or that the candidate's Ph.D. program should be terminated by reason of unacceptability of the dissertation or failure of the oral examination.

Comprehensive Fields for Specialization

These fields are listed here by number and title only. The descriptions of related courses are given in the Courses of Instruction section of this *catalog*. The fields may be offered for examination at both the master's and doctoral levels. The complete details of the student's patterns of requirements and choices are available from the Associate Dean for Graduate Programs.

GOVERNMENT

- 53.60 Political Philosophy
- 53.63 Comparative Government and Politics
- 53.65 American Government and Political Behavior
- 53.67 Public Law

PUBLIC ADMINISTRATION

- 54.67 Government and Public Policy
- 54.68 Urban Affairs
- 54.70 Organizational Theory and Behavior
- 54.71 Governmental Management

Any degree student may take fields from either curricular pattern (i.e., from either Government or from Public Policy and Administration) providing he meets the course prerequisites.

Special Note: Because The American University is a member of the Washington, D.C. Consortium of Universities, a degree student in SGPA may take courses at any of the universities with the prior approval of the Dean. In addition, the School of Government and Public Administration encourages students to take courses in related disciplines including, with the permission of the Associate Dean of SGPA, courses in the Washington College of Law. A degree student may use a single program offered in another unit of the University, or in units of the Consortium of Universities, as examination field if offered as such by that teaching unit.

Courses of Instruction

Undergraduate level course values are expressed as *course units* according to the following decimal notations: (c 00.25) = $\frac{1}{4}$ course unit; (c 00.50) = $\frac{1}{2}$ course unit; (c 00.75) = $\frac{3}{4}$ course unit; (c 01.00) = 1 course unit; (c 01.50) = $1\frac{1}{2}$ course units, etc.

Graduate level course values are expressed as *semester credit hours* according to the following decimal notations: (s 01.00) = 1 semester hour; (s 02.00) = 2 semester hours; (s 03.00) = 3 semester hours; etc. There are no fractional semester credit hours.

Undergraduate Courses

REQUIRED COURSES

All SGPA majors are required to take three basic courses: Introduction to World Politics (33.201), and two of the following: Introduction to American Government and Politics (53.150); Introduction to Political Theory (53.101); or Introduction to Comparative Politics (53.102). All political science majors are expected to complete these three courses before proceeding to courses at the xx.300 level.

53.101 Introduction to Political Theory (c 01.00)

An introduction to some of the major concepts of both classical and contemporary political theorists and how these ideas may be empirically tested. Principal ideological conflicts today.

53.102 Introduction to Comparative Politics (c 01.00)

An introduction to political change and development in selected industrial and industrializing countries. The comparative study of their decision making processes and the logic of the comparative method.

53.150 Introduction to American Government and Politics (c 01.00)

American democratic theory, constitutional and political development of the national government, changing relationships of national, state, and local governments. Emphasis on major national institutions involved in policy making and socio-economic functions which they perform. This course is a prerequisite for many upper level SGPA courses. It may be waived for students who have passed the American government examination of the College Level Examination Program (CLEP).

AREAS OF STUDY

Six courses are required from the following groups of xx.300 and xx.400 level courses listed immediately below. At least one "topic" (xx.400 level) is required, but no more than two topics courses may be taken toward the major.

53.103 Public Affairs Laboratory (c 00.50 through 01.00)

Empirical field research projects in political science workbook experimentation in the Washington political community; laboratory experimentation or simulation exercises on current policy issues. Research and experiments are designed to allow students to observe political phenomena through structured exercises supervised by the faculty. Offered in conjunction with introductory SGPA courses.

53.303 Public Affairs Laboratory (c 00.50 through 01.00)

Description is the same as that for 53.103. However, this laboratory is offered in conjunction with upper level SGPA courses.

POLITICAL PHILOSOPHY**53.311 Modern Political Thought (c 01.00)**

Analysis of major political thinkers from the Renaissance to the twentieth century.

53.312 Introduction to Political Inquiry (c 01.00)

An examination of selected major works in empirical political science to see how contemporary social science is conducted. Applications of some basic data gathering and analytic techniques to student formulated problems. Opportunity for independent and group research.

Note: See graduate courses listed below for advanced courses in Political Philosophy.

AMERICAN GOVERNMENT AND POLITICAL BEHAVIOR**53.320 Political Behavior (c 01.00)**

Elections and electoral behavior. Roles of public opinion, interest groups, social movements, and political parties in plural societies. Problems in political participation, communication, representation, and leadership.

53.321 Congress and the Presidency (c 01.00)

Role of the national legislature and executive in the policy making process.

53.322 Bureaucracy and Administration (c 01.00)

Theories, organization and management of the public sector. Substantial emphasis on policy making within the federal executive.

53.323 Law and the Political System (c 01.00)

Basic notions of law; American legal system. Analysis of role of courts, their actors and processes, in policy-making process. Problems of law enforcement and correctional system.

53.324 Metropolitan Politics (c 01.00)

Growth of cities and metropolitan areas. Evolution of city and its surrounding areas as focus of public policy. Analysis of decision-making techniques, intergovernmental relations and ethnic politics. Implications of social planning, urban violence, financial resources and suburban attitudes on metropolitan politics and policy making.

53.326 State Government and Politics (c 01.00)

Introduction to state government. Federalism, relationships among state and local governments, regional, state, and local cooperation. Emphasis on the major state institutions involved in policy making, and socio-economic functions which they perform.

53.327 American Constitutional Development (c 01.00)

Nature of constitutionalism and role of constitutional interpretation; judicial power and review. Consideration of important Supreme Court decisions and their impact on development of the American political system.

Note: See graduate courses listed below for advanced courses in American Government and Political Behavior.

COMPARATIVE GOVERNMENT AND POLITICS**53.330 Comparative Politics of Industrial Societies (c 01.00)**

Political change and development of selected industrial societies: Britain, France, West Germany, the Soviet Union, and Japan. Comparative study of political leadership, participation, content of public policy, and the policy-making process. Emphasis on the socio-economic, cultural, and international setting of politics.

53.331 Comparative Politics of Agrarian and Industrializing Societies (c 01.00)

Political order and change in selected countries of Africa, Asia, and Latin America, with emphasis on the themes of nation-building, ideologies of development, the interplay of elites and masses, and the role of the military.

Note: See Regional and Country section of graduate courses listed below for advanced courses.

GOVERNMENT AND PUBLIC POLICY**53.340 Government and Social Policy (c 01.00)**

Forces shaping the government's role in social and economic policy. Analysis of substantive policy and program areas: labor, anti-trust, transportation, health, welfare, civil rights, education, urban and environmental policy.

53.341 Civil Rights and Liberties (c 01.00)

Analytical treatment of Supreme Court policy making in the area of civil liberties, with emphasis on the First and Fourteenth Amendments, including constitutional doctrines, current trends, and prospective problems.

Note: See Science, Technology, and Government section of graduate courses listed below for advanced courses.

TOPIC COURSES

At least one topic course from the following areas will be offered every semester. The special subjects will be announced in the *Schedule of Classes* published for each semester.

53.400 Topics in Political Theory (c 01.00)**53.410 Topics in Methodology (c 01.00)****53.420 Topics in American Politics (c 01.00)****53.430 Topics in Comparative Politics (c 01.00)****53.440 Topics in Public Policy (c 01.00)****53.470 Topics in Public Law (c 01.00)****54.410 Topics in Public Administration (c 01.00)****SPECIAL COURSES AND INTERNSHIPS**

(All counted as one course unit, unless otherwise arranged with the Associate Dean of SGPA)

52.100 Washington Summer Seminar (c 00.50)

A special course for advanced college credit for high school juniors and seniors. Systematic field study of the major components of the American national government and the political processes that support and affect it. Examination of selected policy issues. Offered every summer.

52.390 Independent Reading Course in Government (c 00.25 through 02.00)

As arranged with supervising faculty member and the Associate Dean of SGPA. See Independent Reading Courses and Study Projects under General Curriculum Information.

52.490 Independent Research Project in Government (c 00.25 through 02.00)

As arranged with supervising faculty member and the Associate Dean of SGPA. See Independent Reading Courses and Study Projects under General Curriculum Information.

52.491 Undergraduate Internships in Government and Politics (c 01.00 or 02.00)

As specially arranged with supervising faculty member and the Associate Dean of SGPA.

52.398 Honors Reading in Political Science (c 01.00)**52.399 Honors Field Research in Political Science (c 01.00)****52.498 Honors Seminar in Political Science (c 01.00)****52.499 Honors Research in Political Science (c 01.00)**

56.498 and 56.499 must be completed by the end of the fall semester of the student's senior year.

THE WASHINGTON SEMESTER**56.410 Washington Semester Seminar I (c 01.00)**

56.411 Washington Semester Seminar II (c 01.00)**56.412 Washington Semester Research Project (c 01.00)**

Each unit counts as one undergraduate course. All three units must be taken together.

This program is for advanced students enrolled from cooperating institutions, through formal inter-institutional agreements of this program. Study of U.S. government in action, through seminars with senior representatives of U.S. Government agencies, reports, conferences, lectures, and guided seminar evaluations of experience. The research project is an individual analytical report prepared under the guidance and counseling of the academic directors of the program. *Prerequisite:* Selection. All offered every semester.

Washington Semester courses, as listed above, are primarily for students who come from other institutions under the arrangements of the Washington Semester Program. Selected students from The American University may participate each semester. For AU students so selected, only two of those three course units will apply to the requirements for the political science major, but this Washington Semester work may be used for the achievement of honors in political science in the same way as the honors courses which are listed above.

THE WASHINGTON URBAN SEMESTER**56.413 Urban Semester Seminar I (c 01.00)****56.414 Urban Semester Seminar II (c 01.00)****56.415 Urban Semester Seminar III (c 01.00)**

Each unit counts as one undergraduate course. All three units must be taken together.

This Program is open, by selection, to qualified undergraduates from The American University and to students from other colleges, including Consortium schools and member institutions of the Washington Semester Program. Study of urban problems and politics of intergovernmental policy-making in urban affairs. Field seminars with local, state, and federal officials, interest groups, and others knowledgeable and active in urban affairs. The research project is an individual analytical report prepared under the guidance and counselling of the academic directors of the Program. *Prerequisites:* Selection.

For AU students, only two of the three courses will apply to the requirements for the political science major, but all three will count toward the total course requirements for the bachelor's degree.

56.416 Washington Semester Internship (c 01.00)

Open only to students in the Washington and Urban Semesters, as arranged with their academic directors.

Graduate Courses

All courses listed below carry graduate credit. .500 level courses are open to graduate and qualified undergraduate students. Undergraduate students in .500 level courses receive one course unit for 3 or 4 semester hour credits. Courses at the .600 and .700 levels are open to graduate students only.

The presentation of this curriculum is organized as follows:

- Political Science
- Public Administration
- Special Courses and Internships

The first two of these are the areas of the graduate degree programs. These .600 and .700 level courses are open only to graduate students in degree program status or to non-degree graduate students who meet the stated prerequisites.

Political Science**POLITICAL PHILOSOPHY****53.600 Political Thought of the Modern State (s 03.00)**

Intensive analysis of the major political philosophers from the Renaissance to the twentieth century. For graduate students who have not had a course in modern political theory.

53.602 Contemporary Political Ideologies (s 03.00)

Background and major issues of twentieth century political thought; the concept of ideology; nature and functions of ideology; major contemporary ideologies and doctrines. *Prerequisite:* 53.311 or 53.600.

53.603 Marxist and Non-Marxist Socialism (s 03.00)

Origins and characteristics of socialist philosophies, ideologies, and doctrines, and their relations to derivative political movements. Their significance for contemporary understanding of the ideological orientations of the developing and the communist nations. *Prerequisite:* 53.311 or 53.600.

53.604 American Political Thought (s 03.00)

Major concepts and ideas of American political thought, especially those influencing development of the American system of government. *Prerequisite:* 53.311 or 53.600.

53.605 Non-Western Political Thought (s 03.00)

Political theories and politically-related philosophical concepts of non-Western cultures; influence on their own cultures and others. *Prerequisite:* 53.311 or 53.600.

53.606 Systematic Political Theory (s 03.00)

The tradition of political theory (from Plato onward) applied to current political research and to contemporary theory development; particular attention to the operational levels of 'classical' theory, and a 'constructive' orientation to modification and amplification of theoretical structures, in order to increase their research utility. *Prerequisite:* 53.611 or equivalent; may be taken concurrently.

53.607 Fact and Value (s 03.00)

Demonstrates the relationship between the normative and empirical components of social and political research, through a survey of the historical development of the social sciences, a critical analysis of their basic concepts and methods, an examination of recent radical critiques of the social sciences, and an evaluation of new approaches within the social sciences.

53.608 Early Political Thought (s 03.00)

Political thinkers, theorists, and movements from Plato through the Middle Ages. *Prerequisite:* 53.311 or 53.600.

53.700 Seminar in Political Philosophy (s 03.00)

Special subject offering, as announced from time to time in semester class schedules.

53.705 General Symposium in Political Philosophy (s 03.00)

A synthesizing seminar for those who take Political Philosophy as a comprehensive field. This will be taken to satisfy requirements for research and general seminars under previous patterns of graduate degree program requirements.

POLITICAL SCIENCE RESEARCH**53.610 Research for Management (s 03.00)**

A requirement for all MPA students entering in September 1971 and after. This course may be used by MA students who are continuing under previous program patterns and who have not yet taken *Theory and Method of Political Science Research I*. Philosophical concepts, approaches, and methodologies of social science research as applicable in political science and public administration. Problems of interdisciplinary research.

53.611 The Conduct of Political Inquiry and Research I (s 06.00)

This six-hour course or full equivalent is required of all students entering MA or Ph.D. programs in SGPA in September 1971 or thereafter. Concepts, approaches, and methodologies of political science research. Historical, philosophical, and scientific modes of inquiry. The discipline of political science. Philosophy of science and the sociology of knowledge. Research design, theory, and measurement. The application of the computer. Methods and techniques of analysis.

53.612 Introduction to Quantitative Methods in Political Science (s 03.00)

The application of the techniques of bivariate analysis to the measurement of political behavior.

Particular emphasis on those techniques of relevance and usefulness for political scientists and students of public administration. Review of their use in current literature. Some introduction to computer skills.

53.613 The Conduct of Political Inquiry and Research II (s 03.00)

Formal modeling and theorizing. Sets, counting and probability. Vectors. Economic bases of political behavior. Game theory. This course is required for all Ph.D. students. It is strongly recommended, although not required for MA students. *Prerequisites:* 53.611 or permission of the Associate Dean.

53.614 Quantitative Methods in Political Science (s 03.00)

Completion of this course will fulfill the tool requirement in statistics for SGPA Ph.D. candidates. Application of techniques of multi-variate analysis to the measurement of political behavior. Emphasis of those techniques of particular relevance to political science and review of their use in current literature. *Prerequisites:* graduate standing in SGPA or SIS and 53.611 or a foundation in basic statistics. Graduate students from other teaching units may be admitted by the Associate Dean if the class has space above SGPA and SIS student requirements.

53.710 Seminar in Political Research (s 03.00)

A special subject offering, as announced from time to time in semester class schedules.

Comparative Government and Politics

CROSS-NATIONAL COURSES

53.630 Comparative Governmental Systems (s 03.00)

Political change in selected societies. Comparative study of national decision making, emphasizing socio-economic, cultural, and international context of decision making. Cross-national analysis of political parties, military elites, administrative problems, and urbanization as they affect political change.

53.631 Studies in Comparative Government (s 03.00)

Special topics as they are developed by faculty interest and research will be offered as various sections under this more general topic of comparative military regimes; may be offered as faculty resources permit.

53.632 Comparative Urban Politics (s 03.00)

A comparative and cross-national study of urban politics and urban government, with special attention devoted to the problems of migration, planning, and political participation. Urban policies will be compared and contrasted in their impact upon urban growth problems.

53.633 Comparative Political Parties (s 03.00)

Party structures and functioning in competitive and non-competitive systems. Theories of party origin, change and development in industrial and agrarian societies. Comparative political participation. Interrelation of political, cultural, socioeconomic structure, and party functioning. *Prerequisites:* graduate standing, and 53.630 or 53.660 (may be taken concurrently) or equivalent.

53.634 Comparative Bureaucracies (s 03.00)

Problems, theories, and trends in comparative administration; study of the conceptual foundations, structural characteristics, and functional performances of administrative establishments in developed and developing nations. *Prerequisites:* graduate standing and (may be taken concurrently) 53.630, 53.660, or 54.600, or equivalents.

53.635 Comparative Interest Groups and Elites (s 03.00)

Analysis of interest groups and elites in political participation, decision-making, social mobilization and political change. Interest group-elite interactions in different types of political systems. *Prerequisites:* graduate standing, and 53.630 or 53.660 (may be taken concurrently) or equivalent.

53.636 Studies in Comparative Politics (s 03.00)

Study of selected topics in comparative politics.

53.735 General Symposium in Comparative Politics (s 03.00)

Synthesizing seminar for those who take this area as comprehensive field. This will be taken to satisfy requirements for research and general seminars under previous patterns of degree program requirements.

REGIONAL AND COUNTRY COURSES

For those subjects not scheduled, the student may consult the Associate Dean for comparable Consortium courses or for independent study arrangements with an appropriate faculty member.

53.637 Comparative Politics: Western Europe (s 03.00)**53.637 Comparative Politics: USSR (s 03.00)****53.637 Comparative Politics: Middle East (s 03.00)****53.637 Comparative Politics: Africa (s 03.00)****53.637 Comparative Politics: Communist China (s 03.00)****53.637 Comparative Politics: Japan (s 03.00)****53.637 Comparative Politics: South Asia (s 03.00)****53.637 Comparative Politics: Southeast Asia (s 03.00)****53.637 Comparative Politics: Latin America (s 03.00)****53.637 Comparative Politics: Israel (s 03.00)****AMERICAN GOVERNMENT AND POLITICAL BEHAVIOR****53.650 Political Institutions and Behavior (s 03.00)**

Intensive analysis of basic political concepts, institutions, and processes. Political philosophy and its expression in contemporary political systems. Social, economic, and psychological bases of political activity. Primarily descriptive with an American focus but using comparative materials as well.

53.651 The Legislative Process (s 03.00)

Function of the legislature in the American governmental system; with emphasis on Congress and comparative consideration of the state legislature. Organization and procedures, relationships and interactions with the electorate, and the executive, judicial, administrative, and political establishments.

53.652 The National Executive (s 03.00)

Role and organization of the executive branch in the American governmental system, with emphasis on the presidency and comparative consideration of the office of governor. Functioning of the office as chief of state, in its relationships with legislative, political, administrative, and military establishments, and in formation and control of foreign and defense policy.

53.653 American Federalism (s 03.00)

Constitutional and functional relations of American federalism. Interrelationships of national, state, and local governments. The concept of federalism in the governmental-economic and other dimensions of American life. Comparative consideration of the role and performance of the states in the American federal system.

53.654 The Federal Bureaucracy (s 03.00)

The politics of bureaucracy: sources of power, agency relationships, and behavior in a political environment. The course includes study of the background and recruitment of decision makers, organization theory and behavior, and executive policy making.

53.660 Studies in Political Behavior (s 03.00)

Special topics as they are developed by faculty interest and research will be offered as various sections under this more general topic of political behavior. For example, new populist studies, etc., may be offered as faculty resources permit.

53.661 American Political Behavior: Psychology and Politics (s 03.00)

Psychological explanations of political behavior; political socialization; personality; sources of beliefs and behavior; theories of opinion change; small groups and political behavior and effects of communication on attitudes.

53.661 American Political Behavior: Positive Political Theory (s 03.00)

Examination of techniques and problems addressed in positive theory. Specific subjects include the analysis of voting, the voting paradox, two-person games, n-person games, and spatial models. The purpose of the course is to examine areas of current research interest, while simultaneously elucidating the techniques applied to their investigation.

53.661 American Political Behavior: Theories of Voter Preference (s 03.00)

Inquiry into political and voting behavior. Original research required.

53.662 Theories and Concepts of Political Behavior (s 03.00)

Theories such as power, leadership, decision-making, communication, and socialization. Concept formation, quantitative evidence, and problems of field research.

53.750 Seminar in American Government and Politics (s 03.00)

A special subject offering, as announced from time to time in the semester *Schedule of Classes*.

53.755 General Symposium in American Government and Politics (s 03.00)

A synthesizing seminar for those who take this area as a comprehensive field. This will be taken to satisfy requirements for research and general seminars under previous patterns of graduate degree program requirements.

PUBLIC LAW**53.670 Judicial Process and Policy-Making (s 03.00)**

Basic concepts of jurisprudence; study of the American legal system; analysis of federal, state, and local judicial processes and decision-making; actors and their roles in judicial process. Source materials and research in public law.

53.672 Law of the Administrative Process (s 03.00)

Importance of legislative drafting in delegation of administrative power; nature and extent of administrative discretion; types of governmental agencies exercising administrative powers; legislative and executive controls over administrative action; types of administrative action and enforcement. Rulemaking; licensing; adjudication. Judicial review of administrative action. Practices, problems, and issues in implementation and effectuation of public policy.

53.674 Constitutional Law and Politics (s 03.00)

Role of courts in American society with respect to such questions as legitimacy, conflict resolution, and representation. Study of courts as political institutions, as reflected in evolution of doctrine with respect to federalism, powers and limitations on government, and advancement of individual and group interests and rights.

53.676 Urban Justice (s 03.00)

Intensive study of urban court systems, their actors and processes. Problems of law enforcement and the correctional system. Impact of the courts on resolution of urban problems, such as housing, welfare, and education.

53.677 Studies in Public Law (s 03.00)

Special topics as they are developed will be offered as various sections under this more general topic of public law. They will be announced in the semester *Schedule of Classes*.

53.678 Comparative Public Law and Policy (s 03.00)

Anthropological, philosophical, historical, and behavioral approaches to the study of public law and conflict resolution.

53.770 Seminar in Public Law (s 03.00)

A special subject offering, as announced from time to time in semester course schedules.

53.775 General Symposium in Public Law (s 03.00)

A synthesizing seminar for those who take this area as a comprehensive field. This will be used to satisfy requirements for research and general seminars under previous degree program patterns.

Public Policy and Administration**SCIENCE, TECHNOLOGY, AND GOVERNMENT****54.673 Science, Technology and Government: Interaction and Issues (s 03.00)**

To develop understanding and constructs of the interactions and issues of science, technology and government through historical, theoretical, interdisciplinary and case problem approaches to study of the subject. Special attention to the control of science and technology in the interests of society, including problems of environmental degradation, national security, urban order and cybernational versus freedom and privacy.

54.674 Science, Technology and International Affairs (s 03.00)

Effects of science and technology on territorial state system, including changes in instruments of international conduct, such as diplomacy, international organization, and war. Study of scientific components of foreign policy formation, including scientific bases of foreign policy issues, patterns of international scientific cooperation, and role of scientist in foreign policy process.

54.677 Systems Analysis/Operations Research in Public Administration (s 03.00)

Introduction to systems analysis/operations research. Solution of decision making problems in public administration at the international, national, and local levels using the scientific method. Evaluation of particular solutions.

54.678 The Public Management of Science (s 03.00)

Major organizational issues in federal government's support and use of science and technology. Problems of organizational competition, planning, and coordination, and political-economic implications of governmental management and support for research.

54.760 Seminar in Science, Technology, and Government (s 03.00)

A special subject offering, as announced from time to time in semester course schedules.

54.765 General Symposium in Science, Technology, and Government (s 03.00)

General synthesizing seminar for those who take this subject as a comprehensive field. This is to be used to satisfy research and general seminar requirements under previous patterns of degree program requirements.

GOVERNMENT AND PUBLIC POLICY**54.670 American Public Policy (s 03.00)**

Concepts of role of government in planning, regulation, promotion, and redistribution of benefits and burdens, and of responsibilities of government for education, socialization, and control of individual and group conduct. Concepts of limitation of scope of public policy as embodied in American history and traditions of individual, civil, economic, and social rights. Introduction to public policy analysis.

54.671 Policy Analysis and Evaluation (s 03.00)

Development of intellectual framework and methods for analysis and evaluation of policy and policy structures. Includes definition of problems and objectives; generation and comparison of policy alternatives; models of policy making, etc.

54.672 Comparative Public Policy (s 03.00)

Patterns of public policy in selected industrialized, agricultural, and transitional nations. Methodologies for comparative study of public policy. Approaches to a theory of explanation of policy differences.

54.675 Federal Fiscal Policy (s 03.00)

National significance and effect of federal budget in economy. Consideration of national income level, tax structure, and large expenditure areas as they bear on economic decision-making and actions of federal budget administration. Actors and agencies involved in federal policy-making—the Executive, the Federal Reserve Board, the Congress.

54.676 Intergovernmental Fiscal Policy (s 03.00)

Interrelationships of federal, state, and local governmental budgetary and financial policy and administration. Functions of budgetary and financial administration considered from perspective of administrator in state and local levels of American government.

54.679 Institute on Public Policy (s 03.00)

A specialized module of instruction in which students meet with actors in a specific public policy area.

54.770 Seminar in Government and Public Policy (s 03.00)

A special subject offering, as announced from time to time in semester course schedules.

54.775 General Symposium in Government and Public Policy (s 03.00)

General synthesizing seminar for those who take this subject as a comprehensive field. This is to be used to satisfy research and general seminar requirements under previous patterns of degree program requirements.

URBAN AFFAIRS**54.680 Urban Politics (s 03.00)**

Introduction to the study of urban affairs. Analysis of selected problems related to population change, urban bureaucratic responsiveness, the analysis of alternative governmental forms, metropolitan decision making, and intergovernmental relations, etc.

54.681 Metropolitan Analysis (s 03.00)

Interdisciplinary course in development of new approaches and methods for analyzing policy decisions in metropolitan areas. Focuses on theoretical and empirical applications of social science to urban public policy. Advanced reading in several disciplines.

54.684 Urban Planning (s 03.00)

Selective special emphases in the politics and technical problems of urban planning: Comprehensive land planning, social and economic planning, transportation, renewal, rehabilitation and housing, open spaces, recreation, civic design, capital budgeting, zoning and other means of regulation and execution of plans. Special emphasis on political and intergovernmental context of planning and development functions and decisions. Field research. Case studies.

54.685 Studies in Public Administration (s 03.00)

Special subject offerings as announced in the semester *Schedule of Classes*.

54.780 Seminar in Urban Affairs (s 03.00)

A special subject offering, as announced from time to time in semester course schedules.

ORGANIZATIONAL THEORY AND BEHAVIOR**54.600 The Administrative State (s 03.00)**

Team taught course, required of all graduate students in program options of public administration, public policy, or urban affairs. Public bureaucracy as a social institution, and its management as a social function. Ecology of public bureaucracies, their institutional-structural characteristics, behavioral patterns, administrative processes, and policy outputs.

54.601 The Development of Organizational Thought (s 03.00)

General historical context and the normative assumptions of key theorists. Relationship of organizational thought to general stream of political thought.

54.602 Dynamics of Small Groups (s 03.00)

The phenomena of groups (decision-making, norm setting, membership, internal differentiation,

leadership). The class will examine group dynamics by study of the literature, by being members of an intensive group process, and by observation of other real life groups in action. It will include the practical applications of this learning experience to groups such as governing boards, committees in government institutions, management teams in industrial organizations. Students should be prepared to participate voluntarily in one extended group activity over an entire weekend at some agreed time during the course of the semester.

53.634 Comparative Bureaucracies (s 03.00)

See Comparative Government and Politics for description of this course, which is also an integral part of this group.

54.603 The Individual and the Organization (s 03.00)

Social psychology of the organization; motivation, leadership, and revitalization of organizational personnel; theories of personal motivation (Theory X and Y: Argyris, Likert, Katz, and Kahn). *Prerequisite:* graduate standing and 54.600.

54.604 Contemporary Organizational Thought (s 03.00)

The political, sociological, economic, and social psychological theories of complex organizational structure, process, and behavior applied to the studies of the administrative agencies and governments.

54.609 Institute on Organizational Theory and Behavior (s 03.00)

A specialized program emphasizing experimental learning in which students participate in learning modules and then meet to discuss the theories underlying their experience.

54.700 Seminar in Organizational Theory and Behavior (s 03.00)

A special subject offering, as announced from time to time in semester class schedules. *Prerequisite:* permission.

54.705 General Symposium in Organizational Theory and Behavior (s 03.00)

A review of the scholarly literature on organizational theory and behavior, including relevant literature in sociology and psychology, with special attention to its contribution to the development of the discipline of public administration. The course is designed as a synthesizing seminar for students taking comprehensive examinations in this field.

GOVERNMENTAL MANAGEMENT

54.610 Management Theory (s 03.00)

Contemporary and classical approaches to organization and institutional design and change. Special attention to the role of value systems and ethics in the administrative process. Emphasis upon the management of public agencies in the U.S.; also private organizations in industrial nations and public administration in non-Western nations.

54.611 Organization Planning and Control (s 03.00)

The employment of key concepts from systems analysis, management science, organizational dynamics and administrative automation with practical applications to the planning and control of public systems within selected manpower, transportation, public safety, natural resources, national security, international, and science programs.

54.614 Public Personnel (s 03.00)

Administrative and managerial responsibilities and relationships in finding, utilizing, and developing personnel in public agencies. Special emphasis on spread of labor-management agreements as instruments of decision and administration in public sector. Principles and processes of public personnel programs, especially federal: design, classification, and management of the position structure; appraisal of employee performance; grievance and appeal systems; problems of motivation and morale of the work force.

54.615 Manpower Utilization (s 03.00)

Problems of recruitment, training, motivation and assessment of government manpower. Emphasis upon the application of current research on manpower utilization.

54.616 Labor Relations in Public Employment (s 03.00)

Rapidly changing patterns of relationships among public employers, public employees, and

organizations of public employees. Methods and implications of collective bargaining in the public sector.

54.617 The Public Executive and Domestic Policy (s 03.00)

The impact of federal management practices on the implementation and development of public policy in the executive branch, including the politics of administration, bureaucratic pathology, executive branch re-organization, decentralization, revenue sharing, citizen participation and the "new" public administration. Emphasis is upon administrative practices in domestic and intergovernmental programs.

54.618 Governmental Budgeting (s 03.00)

Processes and instruments of planning, programming, and budgeting in public managerial establishment.

54.619 Administration of International Programs (s 03.00)

The comparative analysis of national and international processes and problems focusing on the administration of the foreign policy of the United States and of selected UN programs.

54.710 Seminar in Governmental Management (s 03.00)

Special topics in public administration and governmental management announced each semester in the schedule of classes. May be repeated for credit.

54.715 General Symposium in Governmental Management (s 03.00)

A review of the scholarly literature on management in the discipline of public administration from the classic works on the science of administration and the politics of administration up through the current emphasis on programs. The course is designed as a synthesizing seminar for students taking comprehensive examinations in this field.

SPECIAL COURSES AND INTERNSHIPS

COMPARATIVE GOVERNMENT WORKSHOPS ABROAD

52.520 Summer Traveling Seminar (s 03.00 through 06.00)

Approximately 45–60 days. Overseas travel-study courses as announced, under the direction of a senior faculty member.

INTERNSHIPS, READINGS, AND RESEARCH

54.511 Applied Administrative Management (s 03.00)

A special purpose course arranged and available only for specially organized groups of foreign participants.

52.590 Independent Reading Course in Government (s 01.00 through 06.00)

As arranged with adviser and supervising faculty member. See Independent Reading Courses and Study Projects under General Curriculum Information. Special Independent Projects for Washington Summer Seminar.

52.691 Graduate Internships in National, State, and Local Government, or in a Research Organization (s 03.00)

Arrangements for scheduled work assignments in participation, observation, and research, and seminar integration under cooperative supervision of a government official or a research director and a member of the school faculty.

52.690 Independent Study Project in Government (s 01.00 through 06.00)

As arranged with adviser and supervising faculty member. For students who have been advanced to candidacy for the Master's or Doctoral degrees, such a research project may be developed as a comprehensive case study in politics, government, administration, or the technology of management, for credit up to 6 hours.

52.698 Graduate Internship Seminar (s 03.00)

Application of organizational theory to the analysis of behavioral dynamics in host agencies.

52.712 Practicum in Teaching and Research (s 01.00 through 03.00)

Arrangements for apprenticeships in research or teaching with individual faculty members will be made by the Associate Dean for Graduate Programs. Through this practicum students will become involved with the on-going work of the school in a variety of assignments. This is a year long program, with grading at the end of the year on a pass/fail basis. Students admitted with professional experience may apply to have this requirement waived. Highly qualified candidates for the master's degree may also apply for admission to the practicum. (Normally, the practicum is taken on a three semester hour credit per year basis.)

52.797 Master's Thesis Seminar in Politics and Government or Public Administration (s 06.00)**52.799 Doctoral Dissertation Seminar in Politics and Government or Public Administration (s 06.00 through 12.00)**

School of

International Service

Correspondence Directory:

Robert W. Gregg, *Dean*
William C. Cromwell, *Associate Dean*
Nancy B. Eddy, *Graduate Academic Counselor*
Elizabeth W. Myers, *Undergraduate Academic Counselor*

Fields of Study

International relations, international law and organization, international communication, U.S. and comparative foreign policy, regional international systems, comparative government and politics; *plus* fields offered by other teaching units in history, economics, anthropology, public administration, political science, business, philosophy and religion, literature, sociology, and psychology.

Full-time Faculty

Professor: Theodore A. Coulombis, John J. Finan, Robert W. Gregg, Charles H. Heimsath, Warren S. Hunsberger, Albert D. Mott, Hamid Mowlana, F. Jackson Piotrow, Ralph L. Powell, Darrell D. Randall, Abdul A. Said, Absolom L. Vilakazi, Lawrence W. Wadsworth (Grazier Memorial Professor of International Law), Millidge P. Walker, Takehiko Yoshihashi
Associate Professor: G. Matthew Bonham, William C. Cromwell, Linda Lubrano, George L. Harris, Nicholas G. Onuf, Alan R. Taylor, Brady B. Tyson, Larman C. Wilson, Glynn L. Wood

Assistant Professor: Steven H. Arnold, Duncan L. Clarke, Astri Suhrke, Richard Van Atta

Professor Emeritus: Mary E. Bradshaw, Harold W. Davis (University Professor Emeritus), William Y. Elliott (University Professor Emeritus), Ralph H. Gabriel (University Professor Emeritus), Ernest S. Griffith (University Professor Emeritus), Marian D. Irish, Kenneth P. Landon, Michael F. Lindsay, Pitman B. Potter, Harold M. Randall, Durward V. Sandifer, Samuel L. Sharp (University Professor Emeritus)

Philosophy

THE SCHOOL OF INTERNATIONAL SERVICE is both a separate teaching and degree-granting unit within the College of Public Affairs and the coordinating center for international studies at The American University. It encompasses programs and fields in international relations, in foreign area and cross-national studies, and in policy analysis. Its approach is at once disciplinary, multidisciplinary and interdisciplinary. It draws upon many disciplines, including anthropology, economics, history, languages and linguistics, philosophy and religion, and political science, with the result that the faculty resources in international studies at The American University are much broader than the roster of those holding appointments in the School of International Service may suggest. Moreover, the School consciously seeks to integrate the several disciplines and to approach international studies in an interdisciplinary manner. In these endeavors, the large and varied faculty of The American University in international studies is significantly complemented by the faculty resources of the Washington Consortium of Universities.

Undergraduate Degrees

The undergraduate program of the School has been designed to offer the student a broad foundation in the liberal arts, a flexible specialization in international studies, and an experimental curriculum. The School offers the Bachelor of Arts in International Studies, the Bachelor of Science in International Studies, and jointly with the Department of Language and Foreign Studies of the College of Arts and Sciences, a Bachelor of Arts in Language and Area Studies.

Admission

In addition to the standards and procedures pertaining to undergraduate admission at The American University, candidates for admission to the School of International Service must present evidence of excellent personal and academic qualifications. Eligibility for freshman admission consideration normally requires at least a "B" average in secondary school. Other factors considered are leadership qualities, character and personal interests. Approximately 75 students enter the freshman class. Students from other regionally accredited collegiate institutions and students in other majors at The American University who have completed the freshman year should maintain at least a cumulative "B" average in order to be eligible to apply for transfer to the School of International Service.

Undergraduate Counseling

During the first semester, all freshmen and new transfer students may participate in a special lecture-seminar program designed to acquaint students with the faculty of the School of International Service as well as with the variety and scope of the field of international studies. After attending this program, each student may select one of the members of the SIS faculty to act as his or her permanent advisor, to help in planning an appropriate program of study. Counseling is also provided by the School's Office of Undergraduate Studies and by a selected group of undergraduates which supplement the faculty advisor system.

Bachelor of Arts in International Studies

A single flexible major in international studies is offered for all students enrolled exclusively in the School of International Service. This major acquaints the student with three facets of international studies: international relations, foreign area and cross-national studies, and foreign policy analysis. In addition, it enables students to concentrate on any two of these three general fields.

International Relations: A student who chooses to concentrate in this field will focus on the political relationships among nation-states, including peace and war, diplomacy, international law, international organizations, and, if he or she chooses to emphasize economic relationships, international trade and finance as well.

Foreign Areas and Cross-National Studies: A student whose major interest lies in some foreign culture area may wish to concentrate in this field. It enables a student to select a region, such as Latin America, Africa, the Middle East, East Asia, Southeast Asia, South Asia, or Europe, or even a major country, such as the Soviet Union, France, or China, to name but a few, and study its history, political institutions, cultural traditions, and economic problems as well as the international relations of the area and its place in world affairs.

Foreign Policy: Students who are interested in public policy issues may wish to concentrate in this field. It is concerned with the principal foreign policy strategies open to nation-states, with the relationships between domestic and foreign policy, with the institutions and political processes that give shape to foreign policy, and with the administration of foreign policy programs. It encourages a comparative perspective, but is primarily concerned with United States foreign policy.

Course Requirements

We believe that a student should have considerable discretion in putting together his or her program. As a result, our requirements are the very minimum necessary to accomplish five objectives.

1. We seek to provide a balanced perspective on the three major aspects of international studies identified above. Consequently, we require a minimum of one course in each of the three fields, with a student taking a minimum of three additional courses in two fields of concentration.
2. We seek to lay a foundation of understanding of the Western tradition of which we are a part, and which colors our perceptions of the whole of international affairs. Consequently, we require a two-course sequence entitled *The Western Tradition*.
3. We seek to develop conceptual skills in political science and economics, the two social sciences which we believe to be most critical to systematic international studies. Consequently, we require an introductory course in political concepts and another in economics.
4. We seek to improve skills in oral and written communication. Consequently, The American University requires two courses in English composition and reading of all its students, and we provide an option whereby they may perfect those skills in a course taught by SIS faculty and focusing on international and cross-cultural issues.
5. Finally, we seek to develop proficiency either in one modern foreign language or, alternatively, in statistics and quantitative modes of analysis. Consequently, we require appropriate course work or certification of competence by examination in one or the other of these areas (we urge both).

All students taking this degree are required to complete with a grade of "C" or above the following foundation courses:

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|-------------|------------------------------------|
| 33.151-.152 | Western Tradition I and II |
| 33.101 | Introduction to Political Concepts |
| 19.100 | Introduction to Economics |

In addition, all students pursuing this degree are required, at a minimum, to complete with a grade of "C" or above an appropriate introductory course in each of the three fields into which the degree program is divided, *plus* an additional three courses in the two fields selected for further concentration. The three fields and the introductory courses in each are as follows:

International Relations. 33.201 Introduction to World Politics. If this field is selected as one of the fields of concentration, three additional courses must be taken.

Foreign Area and Cross National Studies. 33.161 Civilizations of Africa and the Middle East; or 33.162 Civilizations of Asia; or 33.241-8, introductory courses dealing with one of several foreign areas (Russia, Middle East, Africa, East Asia, India, Southeast Asia, Latin America); or an appropriate course in history. If this field is selected as one of the fields of concentration, three additional courses must be taken, at least two of which must be in one of the following disciplines: economics, political science, anthropology, or history.

Policy Analysis. 33.281 Introduction to Policy Analysis or Comparative Foreign Policy. If this field is selected for further concentration, three additional courses must be taken, at least two of which must be concerned with foreign policy analysis.

Foreign Language and Quantitative Skills Requirements. Students are required to demonstrate competence either in one modern foreign language or in statistics and quantitative analysis. Ideally, both kinds of skills should be cultivated by students planning careers in international fields. The foreign language requirement may be satisfied either by examination or waiver (administered by the Department of Language and Foreign Studies of the College of Arts and Sciences), or by course work through the intermediate level. The statistics and quantitative analysis option may be satisfied either by examination (administered by the School of International Service) or by successful completion of 33.307 Quantitative Approaches to International Politics or 19.310 Introduction to Econometrics, plus an additional research paper or "methods" course approved by the School of International Service.

Intensive Semester Requirement

Each undergraduate major in the School of International Service, as of Fall 1974, will be expected to complete one of the following special programs during the junior or senior year. Distribution requirements for either B.A. in International Studies or the B.A. in Language and Area Studies may be satisfied by the successful completion of one such program. An SIS major must:

- (1) Successfully complete a semester overseas in an accredited program of study; or
- (2) Successfully complete one of the special semesters regularly offered by the school (Foreign Policy Semester, International Development Semester); or
- (3) Successfully complete a special semester, not necessarily at The American University, which meets the following criteria: (a) the student must submit to the SIS Office of Undergraduate Studies for approval a proposal which identifies a focus of inquiry and a minimum of three courses, or their equivalent, which are germane to it and which he or she proposes to offer in the special semester; (b) the student must identify, in consultation with the instructors of the three related courses (one of whom will serve as principal advisor for the semester), a topic on which he or she will prepare one major research paper in satisfaction of the term paper requirement of all three courses.

Relationship Between Degree and Career

SIS provides a well-balanced liberal arts education with an international and cross-cultural flavor, believing that such a program is an excellent preparation for enlightened citizenship, further and more specialized graduate study, and careers of international service with either public or private agencies. However, we recognize that certain careers require particular skills, and we work conscientiously with each student to identify his or her career interests and to prescribe course packages which will enhance entry into those careers.

For example, many SIS majors take intensive work in economics, either as part of their major and in addition to it, to prepare for careers with the United States government, international agencies, and internationally active businesses. The latter career also attracts some of our students to courses in the School of Business Administration. Others take work in public administration and management in the School of Government and Public Administration and in the Center for Technology and Administration, both within the College of Public Affairs, in preparation for careers in the public service administering international and overseas programs. Journalism careers call for some course work in the Department of Communication. Some

international careers require high levels of language competence, and the Department of Languages and Foreign Studies provides programs of instruction in many languages, while the Washington Consortium of Universities offers instruction in many more.

In summary, SIS provides the educational basis for many careers, and then cooperates with other teaching units on the American University campus and in the Washington Consortium to provide skills appropriate to particular career ambitions.

Bachelor of Arts in Language and Area Studies

This degree is administered jointly by the School of International Service of the College of Public Affairs and the Department of Language and Foreign Studies of the College of Arts and Sciences. It is the only undergraduate degree offered by The American University which both permits an area specialization *and* requires intensive training in the language of the area.

Programs of Study

The student may choose one of three different programs of study, depending on his language and area interest:

- A. Russian—USSR
- B. Spanish—Latin America
- C. French or German—Western Europe

Course Requirements

- (1) Elementary and intermediate language of the area, or the equivalent.
- (2) Conversation and Composition I and II (of an appropriate language) or approved substitutes.
- (3) Civilization I and II (in the appropriate language).
- (4) Eight (8) additional courses specific to the area of specialization, to be selected by the student in consultation with his advisor from among those offered in anthropology, economics, history, international relations, political science, literature, and interdisciplinary courses and colloquia. The eight must be distributed among two or more of these fields or disciplines, and may not include required prerequisites which are not specific to the area.
- (5) A total of four (4) courses must be taken in the School of International Service, of which a minimum of two (2) must be in the area of specialization (they may be among the eight courses required in the previous paragraph).

Graduate Degrees

The graduate program of the School embraces Master of Arts degrees in International Studies and International Communication, the latter in conjunction with the Department of Communication in the College of Arts and Sciences, and a Doctor of Philosophy in International Studies. The School of International Service offers graduate degrees which encourage a multidisciplinary approach to international studies. It is the aim of the School to provide sound preparation in the substantive, theoretical and methodological aspects of international studies, with the understanding that such training is relevant to academic careers and to professional careers in both public and private sectors.

Admission

Master's Degrees. Admission to graduate study in the School of International Service is limited to students who have earned at least a "B" average in a relevant undergraduate major as a part of a Bachelor's degree earned at an accredited institution. A relevant major is defined as a minimum of twenty-four (24) semester hours in subjects deemed appropriate to the degree program selected. Successful applicants who lack twenty-four semester hours of relevant courses will be expected to complete additional work in the areas of background deficiencies, which are normally determined at the time of admission. All applicants for the Master's degree programs (except foreign students) are required to take the Aptitude Section of the Graduate Record Examination. All applicants must supply at least two letters of reference from qualified persons capable of evaluating both their undergraduate performance and their suitability for undertaking graduate study in the chosen field.

Applicants for Master's degree programs (full or part-time) will be considered for admission for any fall, spring, or summer term. However, fall admission is preferred and is to the

student's advantage inasmuch as course scheduling is programmed to the needs of students beginning in the fall semester.

Ph.D. in International Studies. Applicants for the Ph.D. degree must possess a Master's degree, or its equivalent, earned in a relevant field from an accredited institution with a cumulative average in all graduate work of substantially higher than "B". Applicants (except foreign students) are required to take the Aptitude Section of the Graduate Record Examination. Applicants must supply at least two letters of reference from qualified persons capable of evaluating both their graduate performance and their suitability for undertaking doctoral level study.

Applicants for the Ph.D. degree will be considered and admitted only for the Fall semester of each academic year. March 1 is the deadline for receipt of applications and supporting materials. Though applicants for part-time doctoral study are eligible for admission, such students are strongly encouraged to devote at least one academic year of full-time study during the course of their program.

Graduate Counseling

Each graduate student is assigned a faculty advisor, appropriate to his expressed academic interests, upon notification to the School of his intent to accept his admission. The faculty advisor is responsible for working closely with the student in planning his degree program and assisting him in deriving maximum advantage from the graduate study opportunities afforded by The American University and the Washington Consortium of Universities. Moreover, students in the Ph.D. program, in consultation with the Dean, are expected to develop a doctoral committee in their first semester of doctoral work. This committee will consist of two faculty representatives from the student's major field (one of whom shall be the advisor of record) and one from each minor field. During his first semester the student should develop with his advisor at the M.A. level, and with his advisor and committee at the Ph.D. level, a general program plan, and consult at least once a semester thereafter regarding course selection, the development of appropriate research skills, and the comprehensive examination and research requirements appropriate to the degree. The School's Office of Graduate Studies should be consulted regarding academic or administrative problems pertaining to the student's degree program.

Advancement to Candidacy

Advancement to candidacy is a formal evaluation and planning stage which takes place after partial program completion and before the student is approved to undertake his comprehensive examinations. It represents an opportunity for the student to specify formally his degree program aims and provides an occasion for the School to evaluate the student's graduate record and degree objectives in light of his acquired proficiency, interests, and appropriate program requirements. Advancement to candidacy is a discretionary act which takes place upon completion of specified requirements and is a condition for further graduate study.

Master's degree students must apply for advancement to candidacy when they have completed between twelve (12) and eighteen (18) hours of graduate work at The American University (with an average of "B" or better), have completed all deficiencies specified at the time of admission, and have made up all incomplete course work. If, at the end of eighteen hours, or at any time thereafter, the student's average is less than "B", he is subject to dismissal from the University.

When eligible for advancement to candidacy, the student designates his comprehensive examination fields and tool of research in consultation with his faculty advisor. He then files the appropriate form, endorsed by his faculty advisor, with the School's Office of Graduate Studies. **Students who plan to apply for comprehensive examinations must apply for advancement to candidacy at least one month prior to the announced deadline.**

Doctoral degree students must apply for advancement to candidacy no later than the end of the semester in which eighteen (18) hours of graduate work will have been completed in residence beyond the M.A. degree and subsequent to admission to a doctoral program. Any incomplete work and course deficiencies specified at the time of admission must be completed by this time. An average of substantially better than "B" in all doctoral level course work is required for advancement to candidacy. A student who is ineligible for advancement to candidacy at this time will not be permitted to continue further in his doctoral program.

In addition to the foregoing, the following steps and requirements must be accomplished in order to qualify for advancement to candidacy for the doctorate.

1) The student must submit an application for advancement to candidacy prepared in consultation with and endorsed by his faculty advisor and doctoral committee which outlines in detail his doctoral program of study. The application must include a specification of fields for comprehensive examination and the proposed tool of research. In addition, the student must include a carefully reasoned statement, approved by his advisor, which elaborates his major focus of specialization. This may be a sub-field of a broader area of interest or discipline or may cut across and tie together two or more disciplines. This statement should relate directly to the student's course work program and one or more of his comprehensive examination fields.

2) The application for advancement to candidacy is to include a description, in general terms, of the student's intended dissertation topic. The proposed tool of research must be justified in terms of its appropriateness to the dissertation topic or to other aspects of the student's research interests which have constituted an integral part of his program.

3) Each doctoral student must pass an oral qualifying examination in order to be eligible for advancement to candidacy. The purpose of the qualifying examination is to determine the prospective candidate's developing competence and qualifications in the general field of international studies and particularly in his area(s) of specialized interest and chosen fields for comprehensive examinations. Though not intended to test fully developed doctoral level field proficiency, the examination will seek to determine the student's qualities of mind, subject matter knowledge, and growth potential for the purpose of evaluating his suitability for continued study toward the doctorate. The qualifying examination will be conducted by the student's doctoral committee plus the Dean or his designated representative. If a student fails to pass the qualifying examination he may petition for a retake which, if granted, must be completed within nine (9) months.

A doctoral student's eligibility for advancement to candidacy will be determined by the foregoing considerations and will take into account the advice and recommendations of the faculty with whom the student has worked. Advancement to candidacy represents a major event in the student's graduate career and should be approached with careful planning and preparation.

Transfer of Credits

Requests for transfer of graduate credits (minimum grade of "B") from other accredited institutions are considered at the time of advancement to candidacy. In all cases the acceptability of transfer credit requests will be determined by the relevance of the work to the student's graduate degree program. Normally, an M.A. program or other graduate work completed more than eight years prior to the semester of admission will not be considered for transfer toward a graduate degree in the School of International Service.

Subject to the above stipulations, an M.A. student may request transfer of up to six semester hours toward his degree. A doctoral student may transfer up to 30 semester hours, leaving a minimum of 30 semester hours of required doctoral residency plus twelve hours credit allowable for the dissertation. In the case of doctoral students, previously earned M.A. credits will be accepted toward the doctorate in proportion to their relevance to the student's overall graduate program as determined by the selection of comprehensive fields and dissertation subject. Approved courses taken through the Washington Consortium of Universities count as residence credit.

Comprehensive Examinations

Fields for comprehensive examination are formally designated by the student when he applies for advancement to candidacy and are selected in accordance with the field options applicable to the student's degree program. However, the student is encouraged to select his fields as early in his program as possible so as to facilitate proper course planning in consultation with his faculty advisor and doctoral committee.

Eligibility: A student must be advanced to candidacy in order to be eligible to take the comprehensive examinations. In addition, all courses preparatory for the examination(s) to be taken, exclusive of the appropriate research requirement, must be completed or in progress during the semester in which the examination(s) are to be taken.

Scheduling: SIS comprehensive examinations are administered during the fall and spring semesters of each academic year. Applications for comprehensive examinations must be submitted to the School's Office of Graduate Studies prior to the posted deadline. The application deadline for fall comprehensives will be the last class day of September (the comprehensive examination period will begin the first Monday after Thanksgiving); the application deadline for Spring comprehensives will be the last class day of January (the comprehensive

examination period will begin the third Monday in March). M.A. students who have not been advanced to candidacy must apply for advancement at least one month prior to this deadline even if the minimum course work hours are still in progress. Doctoral students must apply for advancement to candidacy at least six weeks prior to this deadline.

Completion Requirements: Written comprehensive examinations at both M.A. and Ph.D. levels are of four and one-half hours duration. Oral examinations are of one to two hours duration. In the case of Ph.D. candidates, comprehensive examinations must be taken or commenced within one calendar year following completion of all course residence requirements for the degree. Examinations *must* be taken either within a single semester or in two *consecutive* semesters.

Retakes: If a student fails one or more comprehensive examinations, he may petition for a retake to be completed within two years. Normally, only one retake is permitted. If a second retake effort is granted, the student will be required to retake his entire set of examination fields.

In Absentia Examinations: Students are discouraged from taking comprehensive examinations *in absentia*. Such applications will be approved only in exceptional circumstances.

Doctoral Dissertation

The doctoral dissertation is accomplished under registration for twelve (12) semester hours of doctoral dissertation supervision. The requirement is fulfilled by the completion of an acceptable dissertation and by a successful defense of the dissertation in a final oral examination. The basic dissertation standard is that of a high quality of original research in a subject which is directly related to the student's doctoral program emphasis.

Though the student is asked to present a general statement of his dissertation subject plans when he applies for advancement to candidacy, the formal proposal is presented for acceptance and appointment of a faculty dissertation committee only after all comprehensive examinations have been successfully completed. The tool of research must be certified prior to formal topic acceptance. Registration for dissertation supervision credits should be accomplished only after all comprehensive examinations have been completed.

After the candidate has completed his comprehensive examinations, he and his dissertation committee chairman (or faculty advisor if a committee has not been appointed) shall be required to file a dissertation progress report with the Director of Graduate Affairs every semester. At the time these reports are submitted, the candidate may request a meeting of the dissertation committee to discuss his progress. Dissertation committees are obliged to meet with candidates upon such request. Failure on the part of the candidate to submit such a progress report for two consecutive semesters constitutes termination of the student's matriculation.

Quality Requirement

Master's students are expected to maintain at least a "B" average in all graduate course work taken as a part of the degree program. If a student has not maintained a "B" average by the time of normal eligibility for advancement to candidacy, or if his average falls below "B" at any time thereafter, he shall be subject to dismissal from the University.

Doctoral students are expected to maintain a substantially better than "B" average in all graduate work taken at the doctoral level. Normally this will be interpreted as a minimum 3.25 average on a 4.0 scale. A doctoral student who has not attained the minimum average by the time of normal eligibility for advancement to candidacy will not be permitted to continue further in his doctoral program. Should his average fall below the minimum requirement at any time after advancement to candidacy, he shall be subject to dismissal from the University.

In the case of both Master's and Doctoral students, the minimum quality averages described above shall constitute minimum quality requirements for graduation.

Statute of Limitations and Leaves of Absence

Master's: All work for the Master's degree must be completed within three years from the date of the first registration in a graduate degree program.

Doctorate: All work for the Doctorate must be completed within five years from the date of the first registration as a doctoral student.

General: In cases where prerequisites or background deficiencies are assigned, the Statute of Limitations will be automatically extended in accordance with the semester time

required to complete the additional requirements. Upon written advance petition to the Dean, a leave of absence may be granted for a maximum of three years for reasons deemed appropriate by the Dean. In such cases, the student will be allowed to resume his graduate program under the degree requirements existing at the time of his initial admission, taking into account possible adjustments which may be necessitated by curriculum changes in the School. However, a leave of absence will not be allowed to affect the requirement for doctoral students that comprehensive examinations must be taken within one year of completion of residence requirements.

Reinstatement

A student who is not formally enrolled in the University for two consecutive semesters (summer excluded) must apply for reinstatement. Reinstatement to a degree program may be granted once for a maximum period of three years in light of the requirements of the particular degree in effect at the time of reinstatement, except as noted above under formal leave of absence provisions. Students who are reinstated following an authorized leave of absence must complete all program requirements within the normal time period as extended by the leave of absence.

Maintaining Matriculation

The University requires students who have begun their graduate program to register for at least the fall semester of each academic year until they complete their entire program. Therefore if a student does not register for course work, thesis or dissertation supervision, or comprehensive examinations during the fall semester, he must register in the fall semester of each year under the designation .099 Maintaining Matriculation (no credit) and pay the required fee.

Comprehensive Examination Fields

The School of International Service offers the following fields for comprehensive examinations at the Master's and Doctoral levels.

33.001 *International Relations*

This field consists of international relations theory and the systematic study of international politics.

33.021 *International Law and Organization*

This field embraces institutionalized modes of interstate and transnational relations at both general and regional levels.

33.051 *International Communication*

This field examines communications in interstate relations with emphasis upon the behavioral science perspective. It is offered cooperatively by the School of International Service and the Department of Communication.

33.061 *Regional International Systems*

This field consists of international politics of selected regions of the world and the foreign policies of principal states within those regions. The major designated areas are: a) Latin America; b) Western Europe; c) Soviet Union; d) Middle East and North Africa; e) Africa; f) South Asia; g) Southeast Asia; h) East Asia.

33.081 *U.S. and Comparative Foreign Policy*

This field is concerned with the foreign policy formulation process, the interrelationship of domestic and foreign policy, and the substantive issues of foreign policy in both an American and a comparative context.

53.063 *Comparative Government and Politics*

This field encompasses the cross-national study of political institutions and political processes, especially those related to development and political behavior. It is offered cooperatively by the School of International Service and the School of Government and Public Administration.

In addition to these six fields, all offered by the School of International Service alone or jointly with another teaching unit at The American University, a number of additional fields of interest to students of international relations, foreign areas and cross-national studies, and policy analysis are offered at The American University and may be selected by M.A. and Ph.D. students in the School of International Service, subject to the specific requirements of those degrees. See requirements for specific degrees for listings of other fields which may be selected from among such disciplines as economics, political science, public administration, anthropology, history, sociology, psychology, and literature.

Master of Arts in International Studies

The School of International Service offers a flexible Master of Arts degree for all students whose interests lie in three broad areas of international studies: international relations, foreign areas and cross-national studies, and policy analysis. Students may specialize in any one of these areas or, alternatively, take a more general program embracing elements of two or more of them.

International Relations focuses on the political and economic relationships among nation-states, including peace and war, diplomacy, international law and organization, international communication, and international trade and finance. It also includes international relations theory and those techniques of research and analysis which are applicable in this field.

Foreign Areas and Cross-National Studies is designed for those students who wish to concentrate on some foreign culture area. It enables a student to select a region, such as Latin America, Africa, the Middle East, East Asia, Southeast Asia, South Asia, or Europe, or even a major country such as the Soviet Union, China, or France, to name but a few, and study its history, political institutions, cultural traditions, literature, and economic problems, as well as the international relations of that region and its place in world affairs.

Policy Analysis will be attractive to those students who are interested in public policy issues and the processes whereby public policies are made and administered. It is concerned with the principal foreign policy strategies open to nation-states, with the relationships between domestic and foreign policy, with the institutions and political processes that give shape to public policies, and with the administration of public programs. It encourages a comparative perspective, but permits an emphasis upon United States policy.

Minimum Course Requirements

Thirty (30) hours of graduate credit is required for the Master of Arts in International Studies. Of these, six (6) hours are devoted to the thesis (or, alternatively, two substantial research papers). The remaining twenty-four (24) hours will be distributed in such a way as to prepare a student for the comprehensive examination(s). The student's advisor and the School's Office of Graduate Studies will assist in developing an appropriate course package. However, a minimum of twelve (12) hours are to be taken within the School of International Service.

Comprehensive Examination Requirements

GENERAL PROGRAM

Each student is given a choice in the composition of his or her program and that choice is reflected in the comprehensive examinations. If the student chooses a general program, he or she may select any two fields from among those listed below, one of which must be an SIS field. It is expected that the student will take a minimum of three courses in each field (some of which are prescribed for that field), and he or she will then be examined in each field in either written or oral form (the student may determine the form of the examination) by a faculty committee from that field.

SPECIALIZED PROGRAM

If the student opts for a program of specialization, he or she selects one of the three broad areas of specialization (international relations, foreign areas and cross-national studies, policy analysis). It is expected that the student will take eight (8) courses from that area of specialization, so selected as to include at least three courses from each of two fields within the area of specialization, one of which must be an SIS field. (If it can be demonstrated that they are germane to the student's specialization, the additional two courses may be taken from other fields outside the area of specialization). The student will then be examined orally by a committee consisting of representatives from each field represented in the student's program; the examination will be integrative in character.

Areas of Specialization and Fields for Purposes of M.A. Comprehensive Examination

INTERNATIONAL RELATIONS

International Relations (SIS)

International Law and Organization (SIS)

International Communication (SIS and Department of Communication)

U.S. and Comparative Foreign Policy (SIS)

Regional International Systems (SIS)

Available in the following areas: Latin America, Western Europe, Soviet Union, Middle East and North Africa, Africa, South Asia, Southeast Asia, East Asia.

International Economic Policy (Department of Economics)

International Business (School of Business Administration)

FOREIGN AREAS AND CROSS-NATIONAL STUDIES**Regional International Systems (SIS)**

Available in the following areas: Latin America, Western Europe, Soviet Union, Middle East and North Africa, Africa, South Asia, Southeast Asia, East Asia.

Diplomatic History (Department of History)

History (Department of History)

Cultural Area Analysis (Department of Anthropology)

Comparative Government and Politics (SGPA)

Comparative Economic Systems and Soviet-type Economies (Department of Economics)

Economic Development Policy (Department of Economics)

History of Religion (Department of Philosophy and Religion)

Literature (Department of Language and Foreign Studies)

POLICY ANALYSIS

U.S. and Comparative Foreign Policy (SIS)

Comparative Government and Politics (SGPA)

American Government and Political Behavior (SGPA)

Government and Public Policy (SGPA)

Governmental Management (SGPA)

Organizational Theory and Behavior (SGPA)

Economic Development Policy (Department of Economics)

Note: Certain other fields such as World Human Needs, may be substituted on petition in the general program. However, if a program of specialization is selected, field substitution is not permitted; outside courses may be allowed if they meet the test of germaneness described above.

Research Skill Requirements

Candidates for this degree must pass a tool of research examination in one modern foreign language, or in statistics, or in another approved quantitative tool. In the case of a modern foreign language, the proficiency required for European languages is "3-level", translation only, and for other languages "2-level", translation only, according to the standards of the Foreign Service Institute of the Department of State. Examinations are administered by the Department of Language and Foreign Studies.

The optional research tool requirement in statistics may be satisfied by examination. Appropriate preparatory coursework, if needed, consists of 53.614: Quantitative Methods in Political Science (prerequisite: 33.611: The Conduct of Political Inquiry and Research, or a foundation in basic statistics). For information about certification through examination, see the School's Office of Graduate Studies. Other quantitative tools appropriate to the student's graduate program (e.g., econometrics, computer science) may be accepted and certified according to the standards of the department offering the tool.

Research Requirements

A thesis or two substantial research papers are required, one in each field, to be prepared in conjunction with an advanced course or research seminar in the field, or as an independent research project.

Relationship Between Degree and Career

This degree is intended to prepare students for internationally oriented careers in the public or private sector; to improve skills or knowledge of individuals already embarked upon such careers; to prepare students for advanced graduate work at the doctoral level; and simply to continue at a more advanced level a broad liberal arts education. We recognize that certain careers require certain skills and certain kinds of knowledge, and that not every possible combination of courses and fields within our program is equally important for a given career. Therefore, we work conscientiously with each student to identify his or her career interests and to prescribe a program which will enhance entry into that career.

For example, a person who wants an academic career and contemplates doctoral level work following the M.A. degree would almost certainly take work in International Relations Theory and otherwise lay a foundation in research methods. On the other hand, a person who seeks a foreign service career may benefit most from a program that includes some economics or some public administration and management. Persons who desire a career that calls for a high degree of specialization in a foreign area should strive to become truly proficient in a language of that area, going beyond the requirements of this degree.

SIS, through its advisory system, will endeavor to tailor programs to each student's interests and needs, whether they lie in teaching, journalism, business, foreign service, or the management of programs and institutions in Washington or overseas, in the public or in the private sector.

Master of Arts in International Communication

The Master of Arts in International Communication is designed to provide a broad basis for achievement in the arts and sciences of international communication and to prepare the candidate to make specialized academic and professional contributions to the field. The program, administered jointly by the School of International Service and the Department of Communication of the College of Arts and Sciences, draws upon the relevant research and thinking of the social and behavioral sciences, including political science, economics, social psychology and cultural anthropology. In addition to the general standards of admission applicable to Master's level study, the student applying for admission to this program must include a strong major or minor in social and behavioral sciences or communication in his academic background. For further information, write to Dr. Hamid Mowlana, Director of Program in International Communication, School of International Service, The American University, Washington, D.C. 20016.

Minimum Course Requirements

Thirty (30) hours of graduate credit is required for the Master of Arts in International Communication. Of these, approved graduate work for this degree includes the following:

Six semester hours in methodology of research selected from the following: 17.760 Methodology of Communication Research, 33.517 Survey Research Methodology, 33.611 The Conduct of Political Inquiry and Research, or other approved social science research methods courses;

Nine semester hours in international communication, at least three of which must be in 17.531 International Communication Systems;

Nine semester hours in one of the following social science and related areas: International Studies (relating to any one of the comprehensive examination fields offered by the School of International Service), Comparative Government and Politics, Economic Development, and Cultural Area Analysis. Social Psychology and General Communication Theory may be taken as related areas if comprehensive examinations are offered in these fields.

Comprehensive Examination Requirements

Two written comprehensive examinations are required in the fields of international communication and a related area; these fields may be chosen and approved in consultation with a faculty advisor and certified by the Dean of the School of International Service or Program Director.

Research Skill Requirements

All candidates for the Master of Arts in International Communication must pass a tool of research examination in a modern foreign language, translation only, at a "3-level" of proficiency according to the standards of the Foreign Service Institute of the Department of State. Examinations are administered by the Department of Language and Foreign Studies.

Research Requirements

A thesis or two substantial research projects prepared in conjunction with an advanced course or research seminar in the field, at least one of which must be completed in the Department of Communication of the College of Arts and Sciences.

Master of Public Administration in International Affairs

The School of Government and Public Administration, in cooperation with the School of International Service, offers a Master of Public Administration in International Affairs. This

degree is designed for students who are contemplating or who are pursuing careers in the administration or management of international programs. Such careers may be with government agencies, international organizations, or private associations. The degree combines emphasis upon management skills, policy-making and administrative processes, and substantive issue areas of foreign policy and international relations.

Requirements for the MPA degree are outlined in this catalog in the section describing the School of Government and Public Administration and its programs.

Doctor of Philosophy in International Studies

The Doctor of Philosophy in International Studies is designed primarily to prepare students for academic careers as teachers and research scholars, although an increasing number of students planning professional careers in the public or private sectors, both in the United States and abroad, are completing doctoral programs in this field.

Minimum Course Requirements

A minimum of seventy-two (72) hours of approved graduate credit is required for the Doctor of Philosophy degree, of which a total of twelve (12) hours is to be in Doctoral Dissertation Supervision. Conduct of Political Inquiry and Research (33.611) is required.

Comprehensive Examination Requirements

Students in the Doctor of Philosophy degree program are required to offer one major and two minor fields. The major field and one of the minor fields must be selected from among the six core fields listed under A below, including International Relations as either a major or a minor field. The second minor field may be another core field or may be selected from among the elective fields noted under B below.

A. CORE FIELDS

International Relations (SIS)
 International Law and Organization (SIS)
 International Communication (SIS and the Department of Communication)
 U.S. and Comparative Foreign Policy (SIS)
 Regional International Systems (SIS)

Areas of emphasis include: Latin America, Western Europe, Soviet Union, Middle East and North Africa, Africa, South Asia, Southeast Asia, East Asia.

Comparative Government and Politics (SIS and SGPA)

B. ELECTIVE FIELDS

Any existing field in the College of Public Affairs, or in Anthropology, Business, Economics, History, Psychology, or Sociology, as approved by the student's faculty advisor and the Dean of the School of International Service. In such case, the student will be expected to demonstrate the germaneness of the proposed field to his or her total program of study.

In addition, the student may propose a field not already existing (e.g., Quantitative Methods) according to the following provisions: The student must present a statement including the scope, content, and academic justification for the field along with proposed course work. The statement requires the endorsement of at least three members of The American University faculty representing the proposed field. A comprehensive examination will be required in this field, prepared by at least the above three faculty members. Approval of the field will be subject to the concurrence of the student's advisor and the Dean of the School of International Service.

Generally, each field will be serviced by a sequence of two core courses which will be systematic in character and will presume substantial undergraduate training on the student's part.

A *major field* is generally defined as the core course sequence, at least three other courses germane to the field as determined in consultation with the student's advisor, and a colloquium. An oral comprehensive examination will be taken in the major field with the candidate's advisor present.

A *minor field* is generally defined as the core course sequence plus at least two courses germane to the field as determined in consultation with the student's advisor. Written examinations will be taken in both minor fields.

The School of International Service strongly recommends that fields be selected in such a way that the degree of Doctor of Philosophy in International Studies is both multidisciplinary

and broadly based in a single discipline, political science. Inasmuch as many recipients of the Ph.D. plan teaching and research careers in colleges and universities, and inasmuch as all are presumed qualified to pursue such careers, it is important that degree candidates develop versatile capabilities in some one academic discipline. Experience has shown, overwhelmingly, that political science is the logical choice as that discipline. On the other hand, the candidate's credentials in international studies are considerably enhanced if work in political science is supplemented with a field in a cognate discipline, e.g., economics.

Research Skill Requirements

Candidates for this degree must pass a tool of research examination in one modern foreign language or in statistics and quantitative analysis to be approved at the time of advancement to candidacy. The chosen language must be germane to the candidate's field of specialization. In the case of a modern foreign language, the proficiency required for European languages is "4-level", for East Asian languages "2-level", and for other languages "3-level", according to the standards of the Foreign Service Institute of the Department of State. Examinations are administered by the Department of Language and Foreign Studies or by members of the faculty of the School of International Service or other qualified persons as designated by the Dean.

The optional research requirement in statistics and quantitative analysis may be satisfied by an examination in statistics plus satisfactory completion of a research project employing quantification methods in either 33.609 Seminar in International Relations or 33.690 Independent Research Project. Other quantitative tools appropriate to the student's graduate program (e.g., econometrics, computer science) may be accepted and certified according to the standards of the department offering the tool.

Teaching Skill Requirement

The School of International Service requires each of its doctoral students to acquire teaching skills by developing and presenting lectures, assuming responsibility for leading classroom discussion, evaluating and grading papers, or participating in course planning, all under the supervision of an appropriate full-time faculty member or members in his or her major field. Arrangements for satisfying this requirement are made in consultation with the Graduate Counselor and are tailored to the particular needs of each individual student.

Special Features of the School

The Washington Consortium of Universities.

The Consortium is a rich resource for students in the School of International Service, especially those who are interested in foreign areas and those who want intensive training in foreign languages. The several Consortium universities in Washington, acting in concert, provide impressive opportunities to study virtually all major areas of the world in depth. This resource base gives students in the School of International Service an important added dimension to their program. In some foreign area specializations, students in the School will be advised and occasionally required to take courses at other Consortium universities. Alternatively, area specialists from other Consortium university faculties teach courses from time to time on The American University campus.

Independent Study Projects and Internships.

The School of International Service is convinced that the nation's capital is one of the best possible places to study international affairs. We endeavor to take full advantage of our location. Students are encouraged to engage in independent study projects which take them out of the classroom and into the Washington laboratory to interact with foreign policy-making and administering agencies and people. Students also have the opportunity to gain firsthand experience in the process of foreign policy-making and administration, as well as policy advocacy and research, through internships in government agencies and non-governmental organizations in the Washington area. Students from the School of International Service currently hold internships, with academic credit, in such places as the Department of State, the Department of Commerce, the Arms Control and Disarmament Agency, Library of Congress, the United Nations Association, and several Congressional offices.

Special Semesters.

In addition to more conventional modes of study, undergraduate students may also participate in two special semesters: a Foreign Policy Semester and an International Develop-

ment Semester. These special semesters are an innovative approach to education which permit a group of students, guided by a team of professors, to devote its entire efforts and attention for one semester to a specific topic or theme. The purpose of this modular semester is to integrate and synthesize knowledge from a variety of fields and apply this multidisciplinary approach to the analysis of specific issues or problems in international affairs. Each semester also provides a wide variety of learning experiences. Depending upon the program a student selects, he may be able to participate in special seminars and conferences, individual and team research projects, on-site observation and field investigations, internships, simulation exercises, and computer-aided measurement and analysis of political, economic and social data.

Both the Foreign Policy Semester and the International Development Semester are designed for advanced undergraduate students enrolled from The American University and from cooperating institutions through formal inter-institutional agreements.

For further information, write to the Dean, The School of International Service, The American University, Washington, D.C. 20016.

Foreign Policy Semester. This semester provides the student with an opportunity to observe and study at first hand the foreign policy decision-making community in Washington and to become acquainted with the manifold governmental, international, and private activities which contribute to the United States' posture in world affairs. The Program serves not only students majoring in political science or international relations, but also students from other fields of inquiry with an interest in the global aspects of their disciplines. The intent is to allow for maximum flexibility to incorporate particularly salient foreign policy issues occurring during the semester.

The Foreign Policy Seminar emphasizes the study of the effect of governmental structure on the policy-making process and the external influences on foreign policy originating with mass media, public opinion, and pressure groups. It includes individual or team research on topics selected in consultation with the instructors and further defined through contact with the foreign policy community in Washington.

The environment of metropolitan Washington provides a unique opportunity to meet with governmental officials, policy planners, key legislators, national defense and intelligence personnel, and foreign embassy representatives who have an important impact on foreign policy. This inter-action takes place primarily in an informal small group atmosphere to maximize the exchange with foreign policy practitioners.

International Development Semester. This semester permits the student to gain insight into the breadth and complexity of the issues concerning international development through a first-hand view of the activities of the many governmental, international, and private organizations in Washington, D.C. concerned with development. Students will analyze the causes of the widening gap between rich and poor nations, and determine the extent to which the policies of the United States, international agencies, and private corporations help alleviate or exacerbate this crisis. Students will also consider the development of rich nations, examining the special problems of "overdevelopment" that hinder present and future growth of the developed world. Problems affecting rich and poor nations alike, such as urbanization, environmental control, food production, and population growth will also receive attention.

The International Development Semester offers an immediacy of experience and detail made possible by the Washington location. Academic presentations of issues and techniques involved in the study of development are enriched by direct discussions with policy-makers in government, international organizations (such as the World Bank, the IMF, and the Organization of American States) and private corporations intimately involved in the field of development.

An independent research project or a research internship is an integral feature of both Special Semesters. Students opting for the internship will have the opportunity to gain first-hand experience and pursue directed research within an organization directly involved in the field of foreign policy or international development.

Students opting for the independent research project will have the opportunity to pursue in depth a topic selected in consultation with a faculty member of the School of International Service and professional foreign policy or international development analysts.

Center for Asian Studies

The Center coordinates Asian Studies throughout the University, and administers those programs on Asia given by the School of International Service. Programs are available at the undergraduate, Master's and Doctoral levels, with emphasis on South Asia, on Southeast Asia

and on East Asia (China and Japan). The programs of the Center for Asian Studies utilize not only the resources of The American University but also those of other members of the Washington Consortium of Universities.

The disciplines involved are anthropology, art, business, economics, government and politics, history, international relations and religion. The languages involved are Chinese, Hindi, Indonesian, Japanese, Thai and Vietnamese, and Sanskrit. Some of these are offered at The American University, but all are available through the Consortium of Universities.

The Center will award a Certificate of Asian Study to every student upon completion of a degree program which has included a significant emphasis in Asian Studies. Undergraduates who wish to qualify for the Certificate must complete satisfactorily four or more courses on Asia or in an Asian language. Graduate students who wish to qualify for the Certificate must complete satisfactorily at least one area related comprehensive examination, appropriate degree level area language certification, and a substantial research paper, thesis, or dissertation dealing with the area.

The Director of the Center for Asian Studies is Dr. Warren S. Hunsberger, Professor of Economics and Asian Studies. For further information write to the Director, Center for Asian Studies, School of International Service, The American University, Washington, D.C. 20016.

Latin American Studies Program

The Washington Consortium of Universities provides one of the most comprehensive opportunities for the study of Latin America within the United States. The American University occupies a central position with a comprehensive curriculum and a large faculty in this field. The presence in Washington of the Organization of American States and the Inter-American Development Bank enhances this program immeasurably.

Specialization in Latin America is possible under degree programs offered by the School of International Service at all levels. Comprehensive programs in the Spanish and Portuguese languages are available, including courses on Latin American history, politics, international affairs and other subjects taught in Spanish.

The Director of Latin American Studies is Dr. John J. Finan, Professor of International Relations and Latin American Studies. For further information write to the Director, Latin American Studies, School of International Service, The American University, Washington, D.C. 20016.

International Administration for World Human Needs

The School of International Service is interested not only in intergovernmental relations and the resolution of international crises, it is also concerned with a whole range of less dramatic but equally important problems and with interpersonal as well as with intergovernmental efforts to resolve them. The Program of International Administration for World Human Needs seeks to focus attention on such problems as population and environmental control, agricultural and industrial development, education and health; the interrelationships among these issues; and strategies for dealing with them in a human context through international agencies and private organizations of a business, religious, philanthropic and service nature.

The Program offers a special dimension to the study of international organization, economic development, cross-cultural analysis, and foreign policy through special courses in world human needs; the encouragement of theses and other projects in these areas, and study-tours and internships where appropriate.

The Director of the Program in International Administration for World Human Needs is Dr. Darrell Randall, Professor of International Relations. For further information write to the Director, Program in International Administration for World Human Needs, School of International Service, The American University, Washington, D.C. 20016.

International Service

The only courses listed here are those taught by the School of International Service. At all levels, however, the School's degree programs either require or recommend courses taught in other teaching units of The American University, especially the School of Government and Public Administration and the Departments of Economics, History, Language and Foreign Studies, Communication, and Anthropology. For detailed statements of course requirements and course options, see the descriptions of the several SIS degrees in this catalog and consult with the Office of Undergraduate and Graduate Studies, School of International Service.

Courses of Instruction

Undergraduate level course values are expressed as *course units* according to the following decimal notations: (c 00.25) = $\frac{1}{4}$ course unit; (c 00.50) = $\frac{1}{2}$ course unit; (c 00.75) = $\frac{3}{4}$ course unit; (c 01.00) = 1 course unit; (c 01.50) = $1\frac{1}{2}$ course units; etc.

Graduate level course values are expressed as *semester credit hours* according to the following decimal notations: (s 01.00) = 1 semester hour; (s 02.00) = 2 semester hours; (s 03.00) = 3 semester hours; etc. There are no fractional semester credit hours.

Undergraduate Courses

FOUNDATION COURSES

33.101 Introduction to Political Concepts (c 01.00)

Examination of concepts such as politics, power, authority, the state, nationalism, and legitimacy, as well as their applicability in international and comparative politics and in policy analysis.

33.151 Western Tradition I (c 01.00)

33.152 Western Tradition II (c 01.00)

Basic introduction to Western European intellectual history; frame of reference to later studies of dynamics of modernization and transition from traditional to secular society.

33.161 Civilizations of Africa and the Middle East (c 01.00)

Comparative study of the major historical, political, social and cultural traditions of Africa and the Middle East.

33.162 Civilizations of Asia (c 01.00)

Comparative study of the major historical, political, social and cultural traditions of the Chinese, Japanese, Indian, and Southeast Asian peoples.

INTERNATIONAL RELATIONS COURSES

33.200 Contemporary International Politics: Selected Topics (c 01.00)

An analysis of a specific international problem, crisis or issue of contemporary concern. May be repeated for credit if topics differ.

33.201 Introduction to World Politics (c 01.00)

Analysis of international relations as a political process. Examines conflict and cooperation in international relations by analyzing such processes as diplomacy, alliances, international law and organization, and other forms of interaction.

33.301 Theories of International Politics (c 01.00)

Major trends in recent thinking about international relations, including systemic and behavioral modes of analysis. Examination of problems of explanation and theory building in the social sciences with special reference to international studies.

33.307 Quantitative Approaches to International Politics (c 01.00)

Introduction to quantitative measurement and statistical analysis in international relations research. *Prerequisite:* permission of instructor.

33.321 International Law (c 01.00)

Analysis of institutionalized modes of international politics, with emphasis upon the nature and function of international law.

33.325 International Organization (c 01.00)

Analysis of institutionalized modes of international politics, with emphasis upon the nature and functions of international organization.

33.351 Foundations of International Communication (c 01.00)

Examination of the sociology, psychology, and anthropology which operates during the trans-

mission of ideas, perceptions and feelings between and within cultures. Considers communications models, perception theories, cultural contact and technological change, public opinion, propaganda, and logic systems.

33.361 Foreign Policies of the Great Powers (c 01.00)

Analysis of the interaction between the United States and the Soviet Union, and the People's Republic of China, with emphasis on the period since World War II, and especially the present era of negotiations.

33.370 International Relations of Western Europe (c 01.00)

Analysis of recent and contemporary interstate relations in Western Europe and place of Western Europe in world affairs.

33.371 Soviet Union in World Affairs (c 01.00)

Analysis of recent and contemporary interstate relations in the zone of Soviet influence and place of the U.S.S.R. in world affairs.

33.400 Special Topics in International Politics (c 01.00)

Selected topics in international politics, including conflict, integration, war, alliances, diplomacy. *Prerequisite:* 33.201 or permission.

33.409 Seminar in International Relations (c 01.00)

Research Seminar on selected topics in international relations. *Prerequisite:* 33.201, and permission.

33.420 Selected Topics in International Law and Organization (c 01.00)

Selected topics in international law and organization. *Prerequisite:* 33.321, or 33.325, depending on the topic to be considered, or permission.

33.450 Selected Topics in International Communications (c 01.00)

Detailed consideration of special topics within the general field of communications. *Prerequisite:* 33.351.

Note: In addition to the courses listed above, a substantial number of .500 level courses, described under the SIS graduate curriculum below, are available to juniors and seniors as part of the International Relations field. See also courses in international economics and diplomatic history under the Departments of Economics and History, respectively.

FOREIGN AREA AND CROSS-NATIONAL STUDIES**33.241 Contemporary Russia (c 01.00)**

An introduction to Russia: the contemporary political culture and its historical, economic, geographic, and social roots.

33.242 Contemporary Middle East (c 01.00)

An introduction to the Middle East: the contemporary political culture and its historical, economic, geographic, and social roots, with special attention to the Arab world.

33.243 Contemporary Africa (c 01.00)

An introduction to Africa: the contemporary political culture and its historical, economic, geographical, and social roots, with special attention to Africa south of the Sahara.

33.244 Contemporary East Asia (c 01.00)

An introduction to East Asia: the contemporary political culture and its historical, economic, geographic, and social roots, with special attention to the People's Republic of China and Japan.

33.246 Contemporary South Asia (c 01.00)

An introduction to South Asia: The contemporary political culture and its historical, economic, geographic, and social roots, with special attention to India, Bangladesh, and Pakistan.

33.247 Contemporary South East Asia (c 01.00)

An introduction to Southeast Asia: the contemporary political culture and its historical, economic, geographic, and social roots.

33.248 Contemporary Latin America (c 01.00)

An introduction to Latin America: the contemporary political culture and its historical, economic, geographic, and social roots.

33.440 Seminar on Western Europe (c 01.00)

Problem-oriented, interdisciplinary seminar. *Prerequisite:* Minimum of two courses on Western Europe.

33.441 Seminar on the U.S.S.R. (c 01.00)

Problem-oriented, interdisciplinary seminar. *Prerequisite:* Minimum of two courses on the U.S.S.R.

33.443 Seminar on Africa (c 01.00)

Problem-oriented, interdisciplinary seminar. *Prerequisite:* Minimum of two courses on Africa.

33.444 Seminar on East Asia (c 01.00)

Problem-oriented, interdisciplinary seminar. *Prerequisite:* Minimum of two courses on East Asia.

33.446 Seminar on South Asia (c 01.00)

Problem-oriented, interdisciplinary seminar. *Prerequisite:* Minimum of two courses on South Asia.

33.447 Seminar on South East Asia (c 01.00)

Problem-oriented, interdisciplinary seminar. *Prerequisite:* Minimum of two courses on Southeast Asia.

33.448 Seminar on Latin America (c 01.00)

Problem-oriented, interdisciplinary seminar. *Prerequisite:* minimum of two courses on Latin America.

33.449 Seminar: Selected Topics (c 01.00)

Problem-oriented, interdisciplinary seminar with focus on one specific issue common to several regions of the world. *Prerequisite:* permission.

Note: In addition to the courses listed above, a substantial number of .500 level courses, described under the SIS graduate curriculum below, are available to juniors and seniors as part of the Foreign Area and Cross-National Studies field. See also courses in cultural anthropology, history, literature, comparative economics, and comparative politics under the Departments of Anthropology, History, Language and Foreign Studies, and Economics, and the School of Government and Public Administration, respectively.

POLICY ANALYSIS**33.281 Introduction to Policy Analysis (c 01.00)**

Public policy formation and implementation, with attention to analysis, evaluation and forecasting in such policy areas as diplomacy, security, welfare, health, education, environment, and finance. Major focus on the United States, with some comparative dimension.

33.285 Comparative Foreign Policy (c 01.00)

Policy formation and implementation of selected nation-states, treated comparatively. Analysis of the impact of foreign policies of selected countries on development, international stability, and the environment.

33.381 United States Foreign Policy (c 01.00)

Analysis of American foreign policy; the diplomatic process, including the role of President, Congress, Department of State, and other agencies in foreign policy making. *Prerequisite:* 33.281, or a course in American government or public policy (53.321, 53.322, 53.340).

33.383 National Security Policy (c 01.00)

National security policy formulation, including role of the intelligence community, military-industrial relations and legislative-executive interaction. Analysis of role of force in international relations, including approaches to arms control, deterrence theory and insurgency.

33.480 Special Topics in Policy Analysis (c 01.00)

Analysis of selected topics in public policy, with special attention to diplomatic, security, economic, or environmental policies. *Prerequisite:* 33.281 or 33.285 or permission.

33.489 Seminar in Policy Analysis (c 01.00)

Research seminar on selected topics in policy analysis. *Prerequisite:* 33.281 or 33.285 or permission.

Note: In addition to the courses listed above, a substantial number of .500 level courses, described under the SIS graduate curriculum below, are available to juniors and seniors as part of the Policy Analysis field. See also courses in political science and public administration under the School of Government and Public Administration.

SPECIAL COURSES**33.390 Independent Reading (c 00.25 through 02.00)**

As arranged with supervising faculty member and Office of Undergraduate Studies, SIS.

33.391 Internship in International Affairs (c 00.25 through 04.00)

Direct involvement in the policymaking process through participation in a government agency or non-governmental organization. Credit varies depending upon the nature of the internship and the number of hours involved. *Prerequisite:* permission of Coordinator of Internships, SIS.

33.490 Independent Study Project (c 00.25 through 02.00)

As arranged with supervising faculty member and Office of Undergraduate Studies, SIS.

33.491-494 Special Semesters in International Studies**1. Foreign Policy Semester**

The Semester is an innovative approach to education which permits a group of students, guided by a team of professors, to devote their entire efforts and attention for one semester to the specific theme of United States foreign policy, its formulation, and implementation. The systematic study of foreign policy emphasizes qualitative analysis, but employs quantitative methods as appropriate. All students actively participate in seminars, workshops, on-site observation, and individual and joint research projects, as well as meet with foreign-policy makers and influencers from government, the media, and other private sector organizations. Internship optional. *Prerequisite:* Junior or senior standing and permission of the coordinator of the Semester.

2. International Development Semester

The Semester is an innovative approach to education which permits a group of students, guided by a team of professors, to devote their entire efforts and attention for one semester to the specific theme of development. The purpose of the Semester is to integrate and synthesize knowledge from a variety of fields and apply this multidisciplinary approach to the analysis of specific issues and problems in the fields of political, economic, and social development. All students actively participate in special seminars and conferences, individual and team research projects, on-site observation and field investigations, simulation exercises, and computer-aided measurement and analysis of development data. Internship optional. *Prerequisite:* Junior or senior standing and permission of the coordinator of the Semester.

33.491 Special Semesters in International Studies (c 01.00)**1. Foreign Policy Research/Internship****2. International Development Research/Internship****33.492 Special Semesters in International Studies (c 01.00)****1. Foreign Policy Semester I****2. International Development Semester I****33.493 Special Semesters in International Studies (c 01.00)****1. Foreign Policy Semester II**

2. International Development Semester II**33.494 Special Semesters in International Studies (c 01.00)****1. Foreign Policy Semester III****2. International Development Semester III****Graduate Courses**

All courses listed below carry graduate credit. .500 level courses are open to graduate and qualified undergraduate students. Undergraduate students in .500 level courses receive one course unit for 3 or 4 semester hour credits. Courses at the .600 and .700 levels are open to graduate students only.

33.500 Special Topics in Contemporary Issues (s 03.00)

Intensive analysis of selected topics in contemporary international relations or intercultural understanding. Recent topics include the multinational corporation, population dynamics, war crimes, ethnicity and international politics, Chinese ideology, reform and revolution in Latin America, etc. Open to advanced undergraduates as well as graduate students. For graduate students, these topics are applicable to a variety of comprehensive fields and specializations; please consult with the Office of Graduate Studies, SIS.

33.517 Survey Research Methodology (s 03.00)

Survey method as a principal tool in comparative politics research; its applicability, strengths, and limitations. Techniques and problems of data collection (research design, quantitative measurement, questionnaire construction, sampling, interviewing); data processing (computer hardware and software); and data analysis (logic of analysis, cross-tabulation, measures of association, causal inference). Experience in use of computer through secondary analysis of existing survey data. Additional time, outside of class, required at Computation Center. *Prerequisite:* A basic course in statistics is highly recommended.

33.527 World Human Needs and International Planning (s 03.00)

Interdisciplinary approach to world human needs; social, economic, political, and moral implications of the growing chasm between rich and poor nations; world population growth, resources, environmental pollution; differences of opportunity for food, health, housing, education, employment, social security, migration, brain-drain; implications of resentment and violence potentials; priority needs; problems and possibilities of international planning.

33.528 World Human Needs and International Administration (s 03.00)

Consideration of the problem of international service and development agencies in the field of world human needs, including relief, economic assistance and development. Presentations are made by administrators of public and private international agencies, including Red Cross, religious agencies, United Nations, World Bank, and U.S. Government program administrators, and consideration of other possibilities for meeting future world human needs.

33.538 Twentieth Century Political Ideas and Movements (s 03.00)

Theory of mass psychology, crowds, political sects; role of intellectuals including such thinkers as Mosca, Pareto, Le Bon, and Michels; Max Weber's theory of bureaucracy and charisma; communism and French intellectuals; National Socialism as a charismatic-bureaucratic phenomenon. Transition, end of ideology, and changing role of intellectuals in advanced societies.

33.590 Independent Reading (s 01.00 through 06.00)

Course content must be arranged with the supervising faculty member and Office of Graduate Studies, SIS.

33.611 Conduct of Political Inquiry and Research (s 03.00)

Introduction to quantitative measurement and statistical analysis in international relations research.

33.690 Independent Research (s 01.00 through 06.00)

Course content must be arranged with the supervising faculty member and Office of Graduate Studies, SIS.

33.797 M.A. Thesis Supervision (s 03.00 through 06.00)**33.799 Doctoral Dissertation Supervision (s 03.00 through 12.00)****INTERNATIONAL RELATIONS****33.601 Foci of Analysis in International Relations (s 03.00)**

Problem identification, definition of the boundaries of the field, development of normative and analytic goals, and establishment of priorities.

33.603 Systematic International Relations (s 03.00)

Examination of alternative analytical perspectives, selection of appropriate methods and development of research plans. *Prerequisite:* 33.601 or equivalent.

33.609 Seminar in International Relations (s 03.00)

Research Seminar. Organization may vary according to need around a substantive problem focus, a technique focus, or a more general focus. *Prerequisite:* 33.601 and 33.603, or equivalent.

33.710 Colloquium in International Relations (s 03.00)

Intensive dialogue among faculty members and doctoral students in the international relations field. Some MA students admitted with permission. Reading and discussion of literature and ideas in an aspect of the field announced in advance by the Office of Graduate Studies, SIS. Preparatory for comprehensive examination.

Note: See also appropriate topics offered under 33.500, as well as 33.553 under International Communication field.

INTERNATIONAL LAW AND ORGANIZATION**33.621 International Law (s 03.00)**

Nature and functions of international law in interstate relations, with emphasis on recent trends in scholarship as well as cases, documents and other original materials.

33.625 International Organization (s 03.00)

Organization of the international system, with emphasis on the institutional forms of international order and the functions and processes of global and regional organizations.

33.629 Seminar in International Law and Organization (s 03.00)

Research Seminar. Organization may vary according to need around a substantive problem focus, a technique focus, or a more general focus. *Prerequisite:* 33.621 or 33.625, depending on the topic to be considered, or equivalent.

33.720 Colloquium in International Law and Organization (s 03.00)

Intensive dialogue among faculty members and doctoral students in the international law and organization field. Some MA students admitted with permission. Reading and discussion of literature and ideas in an aspect of the field announced in advance by the Office of Graduate Studies, SIS. Preparatory for comprehensive examination.

Note: See also appropriate topics offered under 33.500.

INTERNATIONAL COMMUNICATION**33.553 Psychological and Cultural Bases of International Politics (s 03.00)**

Phenomena and problems of international political behavior in terms of underlying psychological and cultural forces. Theory of international politics from behavioral science points of view. *Prerequisite:* 33.351 or 33.651.

33.651 Foundations of International Communication (s 03.00)

Concepts, theories and problems of international communication in terms of individual group behavior as presented in social and behavioral sciences.

33.655 Seminar in Cross-Cultural Communication (s 03.00)

Contribution of relevant social and behavioral sciences to study of intercultural and cross-

cultural communication. Culture as communication and analysis of value-systems as essential element in communication. *Prerequisite:* 33.651 or equivalent.

33.657 Communication and Political Development (s 03.00)

Theories and models of communication and political development. Communication patterns and political socialization in modernization process. *Prerequisite:* permission of instructor.

33.658 Communication in Social and Economic Development (s 03.00)

Communication as instrument of social and economic development. Uses of communication for national integration, social change, and diffusion of innovation. *Prerequisite:* permission of instructor.

Note: See also courses offered in the Department of Communication, especially 17.531 International Communication Systems, and 17.760 Methodology of Communication Research.

U.S. AND COMPARATIVE FOREIGN POLICY

33.605 International Conflict and Conflict Resolution (s 03.00)

Conflict theory and approaches to mitigation and resolution of conflict in the international system.

33.661 The United States in World Affairs (s 03.00)

Analysis of recent and contemporary interstate relations in areas of American influence and the place of the United States in world affairs.

33.681 United States Foreign Policy (s 03.00)

The principal elements of U.S. foreign policy, factors shaping it, and problems of conduct and control.

33.683 National Security Policy (s 03.00)

Principal elements of U.S. national security policy, including policy making, implementation and control; civilian-military, military-industrial, executive-legislative relations; interaction of security policy of United States and other powers.

33.685 Comparative Foreign Policy (s 03.00)

Interaction of domestic and international policies of nation states; internal and systematic determinants of foreign policy examined comparatively.

33.687 Executive-Legislative Interactions in U.S. Foreign Policy (s 03.00)

Roles and relationships of Congress, President, executive agencies, and public opinion in the development of foreign policy and its administration. Interrelationships of domestic and foreign policy issues. *Prerequisite:* 33.681 or equivalent.

33.689 Seminar in Foreign Policy Analysis (s 03.00)

Research Seminar. Organization may vary according to need around a substantive problem focus, a technique focus, or a more general focus. *Prerequisite:* 33.681 or 33.685, depending on topic to be considered, or equivalent.

33.780 Colloquium in U.S. and Comparative Foreign Policy (s 03.00)

Intensive dialogue among faculty members and doctoral students in the U.S. and Comparative Foreign Policy field. Some MA students admitted with permission. Reading and discussion of literature and ideas in an aspect of the field announced in advance by the Office of Graduate Studies, SIS. Preparatory for comprehensive examination.

Note: See also appropriate topics offered under 33.500 and in the School of Government and Public Administration.

REGIONAL INTERNATIONAL SYSTEMS

33.560 International Relations Between the Wars (s 03.00)

Diplomacy of 1919-1939, with particular reference to Europe. Development and breakdown of the French system, collective security, Fascism, Nazism, the Soviet Union, and the role of the United States in European affairs.

33.561 Diplomacy of World War II (s 03.00)

History of the diplomatic front during the War. Groundwork of postwar settlement.

33.562 International Relations of the Middle East I (s 03.00)**33.572 International Relations of the Middle East II (s 03.00)**

Analysis of recent historical and contemporary interstate relations in the Middle East and North Africa and the place of the Middle East in world affairs.

33.563 International Relations of Africa I (s 03.00)**33.573 International Relations of Africa II (s 03.00)**

Analysis of recent historical and contemporary interstate relations in Africa and place of Africa in world affairs.

33.564 International Relations of East Asia I (s 03.00)**33.574 International Relations of East Asia II (s 03.00)**

Analysis of recent historical and contemporary interstate relations in East Asia and the place of East Asia in world affairs.

33.576 International Relations of South Asia (s 03.00)

Analysis of recent and contemporary interstate relations in South Asia and the place of South Asia in world affairs.

33.577 International Relations of Southeast Asia (s 03.00)

Analysis of recent and contemporary interstate relations in Southeast Asia and the place of Southeast Asia in world affairs.

33.578 International Relations of Latin America (s 03.00)

Analysis of recent and contemporary interstate relations in Latin America and the place of Latin America in world affairs.

33.670 International Relations of Western Europe (s 03.00)

Analysis of recent and contemporary interstate relations in Western Europe and the place of Western Europe in world affairs.

33.671 Soviet Russia in World Affairs (s 03.00)

Analysis of recent and contemporary interstate relations in areas of Soviet influence and the place of the USSR in world affairs.

33.675 Special Topics in Regional International Relations (s 03.00)

Intensive analysis of selected topics in contemporary international relations with a regional or area focus. *Prerequisite:* appropriate course in 33.562-.671 series, or equivalent.

33.679 Seminar in Regional International Relations (s 03.00)

Research seminar with focus on the international relations of a specified area, region, or country, or the place of that area, region or country in world affairs. *Prerequisite:* Appropriate course in 33.562-.671 series, or equivalent.

33.770 Colloquium on Regional International Systems (s 03.00)

Intensive dialogue among faculty members and doctoral students in the regional international systems field. Some MA students admitted with permission. Reading and discussion of literature and ideas in an aspect of the field announced in advance by the Office of Graduate Studies, SIS.

Note: see also appropriate topics offered under 33.500 and in diplomatic history by the Department of History.

COMPARATIVE GOVERNMENT AND POLITICS

Although this field is jointly planned and taught by the School of International Service and the School of Government and Public Administration, the courses are listed under the latter.

Center for

Technology and Administration

Correspondence Directory: , Director

Richard A. Bassler, *Program Director, Computer Systems Applications*

Janet M. Malcolm, *Program Director, Operations Research*

Isaac D. Welt, *Program Director, Scientific and Technical Information Systems*

Walter J. Kennevan, *Program Director, Management Information Systems*

Lowell H. Hattery, *Program Director, Science/Technology Policy and Administration*

Martha C. Sager, *Program Director, Environmental Systems Management*

Fields of Study

Computer systems applications, operations research, scientific and technical information systems, management information systems, science/technology policy and administration, and environmental systems management.

Full-time Faculty

Professor: Lowell H. Hattery (CTA and SGPA), Martha C. Sager, Isaac D. Welt

Associate Professor: Richard A. Bassler, William Howard Gammon, Walter J. Kennevan, Marvin I. Rosenberg

Assistant Professor: Janet M. Malcolm

Adjunct Faculty: (See listings under part-time faculty)

Technology of Management

The Center for Technology and Administration was established in 1958 to provide a vehicle for the study of the effect of the evolving modern technology on administrative processes.

The discipline, Technology of Management, exists apart from business management, government and public administration, and the classical fields of mathematics and science. It evolved from the acceptance of the electronic digital computer with its associated communications capabilities, as well as from the emergence of a broad and substantial quantitative theory of the properties, structure and flow of information. It approaches problems in all fields involving information transfer, transformation and storage. The discipline should be included in the education of those who will be involved in the management, or design, or development of large, complex systems involving people, resources and objectives. It includes but is not limited to the use of computers in systems analysis, systems dynamics, statistics, computer assisted instruction, command and control systems, data systems, information storage and retrieval, simulation and modeling and quantitative policy development.

Undergraduate Degree

Bachelor of Science in Technology of Management

This program is designed to prepare students to apply modern technological resources so that organizations, public and private, utilize man-machine assets in the most effective, efficient and economical way. Sufficient freedom of choice has been built into the curriculum to provide a path for the most demanding student to satisfy both his needs and desires and the standards of the University. The multidisciplinary nature of the program is intended for students whose interest in the fields of management and information sciences transcends that of mere technical knowledge of computing and communications equipment.

Admission and Continuation

Requirements for admission to or continuation in the program are stated in the Undergraduate Admission section of Admission Information, and in the Undergraduate Degree Requirement section of General Academic Regulations in this *Catalog*.

University Requirements

Those in the Bachelor of Science in Technology of Management program are bound by the general University requirements as stated under Undergraduate Degree Requirements under General Academic Regulations in this *Catalog*.

School or College Requirements

For undergraduate technology of management majors who are registered in the Center for Technology and Administration of the College of Public Affairs, the program requires no

additional features other than those described below in the Technology of Management Program.

Advanced Placement

In accordance with the University's rules, freshman applicants may earn advanced standing credit which may be used toward fulfilling degree requirements (see Undergraduate Admission under Admission Information in this *Catalog*).

Dean's Honors List

The names of students in the Bachelor of Science in Technology of Management program who achieve a grade point average of 3.5 or higher are placed on the Dean's Honor List for that semester. Appearance on the list will be limited to (1) fulltime students registered for a minimum of three course units and (2) parttime students registered for a minimum of three course units over a period of two consecutive semesters. A summer session may be included.

University Composition and Reading Requirement

23.100 Composition and Reading I

23.101 Composition and Reading II

Major Requirements

FOUNDATION COURSES (7 Courses)

Mathematics: 41.100, 41.101 (2)

Statistics: 69.202, 69.300 (2)

Accounting: 10.206, 10.208 (2)

Business Law: 10.201, or

Bureaucracy and Administration: 53.322 (1)

MAJOR FIELD (8 Courses)

55.310 Introduction to Data Processing

One of the following:

55.333 FORTRAN, or

55.334 COBOL, or

55.335 PL/I, or

55.491 Internship in Computer Programming (½-2)

55.337 Problem Analysis, or

55.331 Introduction to Computer Design

55.360 Management and the Computer

55.431 Documentation of Computer Systems, or

55.432 Introduction to Simulation and Modeling

Additional courses taken from the programs in Technology of Management in the Center for Technology and Administration or in the programs offered by the Department of Mathematics and Statistics, to make a total of eight courses in the major field. There are also double major programs available. Consult the Director, Center for Technology and Administration, for information.

RELATED COURSES (5 Courses)

Five courses selected from the fields of government, international service, business, economics, natural science, psychology and sociology, with not more than two of the five courses taken from the same field.

ELECTIVES

To complete the minimum of 32 courses.

Graduate Degrees

Master of Science in Technology of Management

Background

The Master of Science in Technology of Management is a professional degree designed

to equip qualified candidates with a concentrated background in two of the six fields of Computer Systems Applications, Management Information Systems, Operations Research, Scientific and Technical Information Systems, Science/Technology Policy and Administration, and Environmental Systems Management. Areas for concentrated effort may be selected from a wide spectrum of subject matter to satisfy the student's requirements.

Admission

Candidates applying for admission to the Master of Science in Technology of Management program must have a Bachelor's degree from an accredited college or university. He must satisfy certain grade point averages as outlined in this *Catalog*. Forms for application to the graduate program may be obtained from the Office of Admissions, Financial Aid, and Veterans Affairs, Programs and Services. It is recommended that the student consult a faculty advisor in the Center for Technology and Administration before submitting an application.

Provisional admission may be granted to those students who do not meet the minimum standards for admission. This may be accomplished by demonstrated academic performance in graduate course work in one of the six Graduate Certificate Programs offered by the College of Continuing Education in conjunction with the Center for Technology and Administration.

Program

In addition to the prerequisites and foundation courses or their equivalents, the program consists of the completion of at least 33 graduate credit hours of course work distributed over two fields of concentration. These would be selected to prepare the student for the required two comprehensive examinations. At least 12 hours must be taken in field courses in one of the fields including the seminar in that field. The other field requirement may be satisfied by nine hours of field courses, not including the seminar. Twelve hours in each of both fields, including both seminars, is recommended.

Each student will be assigned a faculty advisor who will outline and approve the student's program. Courses and their sequence will be planned. If the thesis option is chosen, the faculty advisor may be the thesis director. The program must be completed with at least a "B" average for all the graduate courses taken.

Comprehensive Examinations

Comprehensive Examinations will be offered each semester for each of the fields. Degree candidates may take one or both of the examinations at any one semester offering. To complete the requirements for the degree, each student must pass two comprehensive examinations. They may be selected from:

- 55.63M Computer Systems Applications
- 55.64M Operations Research
- 55.65M Scientific & Technical Information Systems
- 55.66M Management Information Systems
- 55.67M Science/Technology Policy and Administration
- 55.68M Environmental Systems Management

Special Programs

To satisfy the needs of students with special interests, special programs which would include one comprehensive field from the list above plus one other field may be arranged between the student and his advisor. The second comprehensive field may be a related one offered by one of the other schools and colleges of The American University. It could be a special one, designed by the CTA advisor in consultation with the student to meet the special needs of the student. It would be based on related graduate level courses offered by the University. For instance the Science/Technology Policy and Administration Comprehensive Field may be taken in association with that of the SGPA's Public Policy Program. All special programs are subject to the approval of the Director, CTA, the Dean of the College of Public Affairs and the dean of the school offering the second comprehensive field.

For the exceptional student whose needs and interests lie in a single comprehensive field, and who wishes to direct his efforts toward one area of study, a special program of study with intensive concentration in one comprehensive field, consisting of most or all of the courses offered in that field augmented by courses in supporting fields may be designed. A program of this type must be approved *in advance* by the program director in the field of concentration. A special comprehensive examination will be administered. It will cover all courses taken in the program, *i.e.*, the courses in the major comprehensive field and those in the supporting fields.

Thesis

A thesis option is offered. This option satisfies either three or six credit hours depending on the extent of the research involved. This determination will be made between the student and his faculty advisor on the basis of the thesis proposal. It would be subject to the Director's approval.

Field Requirements

The candidate for the Master of Science in Technology of Management will select two fields from the six listed below. He will sit for two comprehensive examinations in the two fields selected. No graduate credit will be given for the foundation requirements. However, they may be satisfied by previous equivalent course work or in some cases by experience.

55.63M COMPUTER SYSTEMS APPLICATIONS*FOUNDATION REQUIREMENTS*

- 55.310 Introduction to Data Processing
- 55.333 Computer Programming: FORTRAN, or
- 55.334 Computer Programming: COBOL, or
- 55.335 Computer Programming: PL/I
- 55.411 Introduction to Management Mathematics
- 69.400 Managerial Statistics, or
- 69.300 Business Statistics

GENERAL REQUIREMENTS

- 55.511 The Systems Approach, or
- 55.512 Introduction to Cybernetics and
- 55.530 Real-Time Systems

FIELD COURSES

- 55.531 Computer Design
- 55.632 Simulation and Modeling (formerly Advanced Computer Applications)
- 55.633 Programming Systems and Language
- 55.635 Workshop in Computer Systems
- 55.637 Workshop in Operating Systems
- 55.730 Seminar in Computer Systems Applications

55.64M OPERATIONS RESEARCH*FOUNDATION REQUIREMENTS*

- 41.222 Calculus II
- 69.400 Managerial Statistics, or
- 69.300 Business Statistics

GENERAL REQUIREMENTS

- 55.514 Operations Research Approach
- 55.542 Probability and Statistics for Management Decisions
- 55.544 Advanced Management Mathematics

FIELD COURSES

- 55.641 Methods of Operations Research I
- 55.642 Methods of Operations Research II
- 55.645 Workshop in Operations Research
- 55.646 Cost-Benefit Analysis (formerly 55.666)
- 41.576 Mathematical Methods of Operations Research
- 55.740 Seminar in Operations Research

55.65M SCIENTIFIC AND TECHNICAL INFORMATION SYSTEMS*FOUNDATION REQUIREMENTS*

- 55.310 Introduction to Data Processing
- 55.333 Computer Programming: FORTRAN, or
- 55.335 Computer Programming: PL/I

- 55.411 Introduction to Management Mathematics
- 69.400 Managerial Statistics, or
- 69.300 Business Statistics

GENERAL REQUIREMENTS

- 55.511 The Systems Approach, or
- 55.512 Introduction to Cybernetics
- 55.530 Real-Time Systems

FIELD COURSES

- 55.550 Survey of Information Science & Technology
- 55.650 Natural Language Data Processing
- 55.653 Concepts of Abstracting and Indexing
- 55.654 Workshop in Technical Information Handling
- 55.656 Publication Techniques
- 55.750 Seminar in Scientific and Technical Information Systems

55.66M MANAGEMENT INFORMATION SYSTEMS

FOUNDATION REQUIREMENTS

- 55.310 Introduction to Data Processing
- 55.333 Computer Programming: FORTRAN, or
- 55.334 Computer Programming: COBOL, or
- 55.335 Computer Programming: PL/I
- 55.411 Introduction to Management Mathematics
- 69.400 Managerial Statistics, or
- 69.300 Business Statistics

GENERAL REQUIREMENTS

- 55.511 The Systems Approach
- 55.530 Real-Time Systems

FIELD COURSES

- 55.560 Systems Design for Business Operations
- 55.561 Management of Automatic Data Processing Systems
- 55.562 Management of Institutional Records Systems: Creation
- 55.563 Management of Institutional Records Systems: Maintenance and Retention
- 55.660 Management Information & Reporting Systems
- 55.665 Workshop in Management Information Systems
- 55.760 Seminar in Management Information Systems

55.67M SCIENCE/TECHNOLOGY POLICY AND ADMINISTRATION

FOUNDATION REQUIREMENTS

- 69.400 Managerial Statistics, or
- 69.300 Business Statistics

GENERAL REQUIREMENTS

- 55.511 The Systems Approach
- 55.570 The Management of Research & Engineering Organizations & Laboratories

FIELD COURSES

- 55.571 Technological Forecasting
- 55.670 The Politics & Economics of R&D
- 55.671 R&D in the Total Organization
- 55.672 Scientific & Engineering Manpower
- 55.673 Planning & Control of R&D Operations
- 55.770 Seminar in R&D Management

55.68M ENVIRONMENTAL SYSTEMS MANAGEMENT

The environments of planet earth include natural ecological systems such as limnological, fresh water systems, marine, saline habitats, estuarine and coastal ecotones, savannahs, grasslands, deserts, alpine and tundras regions, arctic and tropical rainforests, and others.

Technological, artificial environments have been developed which include such closed ecosystems as submarines and space capsules and the more familiar urban asphalt ecological complexes.

Environmental Systems Management courses may be constructed to provide either in-depth or in-breadth analyses of any or all of these, as student interest demands. Faculty will be provided from the professional community of persons with expertise in the given area in order to maintain the standards of academic excellence which prevail in the Center for Technology and Administration of the College of Public Affairs at The American University.

Special sections will be arranged for in-depth examination and study of specific ecosystemic management fields.

FOUNDATION REQUIREMENTS

- 55.310 Introduction to Data Processing
 - 55.333 Computer Programming: FORTRAN, or
 - 55.334 Computer Programming: COBOL, or
 - 55.335 Computer Programming: PL/I
 - 55.411 Introduction to Management Mathematics
 - 69.400 Managerial Statistics, or
 - 69.300 Business Statistics
- Plus an adequate background in basic undergraduate science courses

GENERAL REQUIREMENTS

- 55.511 The Systems Approach

FIELD COURSES

- 31.571 Ecology and the Human Environment
- 55.580 Environmental Systems Analysis
- 55.581 Technological Systems Management of the Environment
- 55.582 Administrative Systems Management of the Environment
- 55.683 Pollution Abatement Potentials
- 55.684 Environmental Management in Relation to Conservation Practices
- 55.685 Workshop in Environmental Systems Management
- 55.780 Seminar in Environmental Systems Management

Courses of Instruction

Undergraduate level course values are expressed as *course units* according to the following decimal notations: (c 00.25) = $\frac{1}{4}$ course unit; (c 00.50) = $\frac{1}{2}$ course unit; (c 00.75) = $\frac{3}{4}$ course unit; (c 01.00) = 1 course unit; (c 01.50) = $1\frac{1}{2}$ course units; etc.

Graduate level course values are expressed as *semester credit hours* according to the following decimal notations: (s 01.00) = 1 semester hour; (s 02.00) = 2 semester hours; (s 03.00) = 3 semester hours; etc. There are no fractional semester credit hours.

Undergraduate Courses

55.310 Introduction to Data Processing (c 01.00)

Overview of modern data processing. Elements of digital computer system organization, operation and programming; survey of computer applications, systems analysis and information science.

55.331 Introduction to Computer Design (c 01.00)

The course will cover number systems, codes and Boolean Algebra. Computer circuits and blocks will be examined. The relationship between various computer units will be compared. *Prerequisite:* 55.310.

55.333 Computer Programming: FORTRAN (c 01.00)

Basic concepts of computer programming using FORTRAN.

55.334 Computer Programming: COBOL (c 01.00)

Basic concepts of computer programming using COBOL (Common Business Oriented Language).

55.335 Computer Programming: PL/1 (c 01.00)

Basic concepts of computer programming using the PL/1 programming language.

55.337 Problem Analysis (c 01.00)

This course develops the fundamental ideas involved in the reduction of problems to computable form. Students will learn the elements of BASIC and the use of remote real-time terminals and construct and program simple algorithms for sorting, arithmetic and logical games and management procedures such as PERT. *Prerequisite:* 55.310 (or may be taken concurrently).

55.360 Management and the Computer (c 01.00)

Develops the concept of the computer as a tool of management. Examines the present and future capabilities in effective management utilization and exploitations of computer techniques within a business enterprise. *Prerequisite:* 55.310.

55.380 Introduction to Environmental Management (c 01.00)

A comprehensive, multidisciplinary approach to this vital new profession; includes a survey of the human sciences, the natural sciences, and the information sciences as each interacts with government and business practices in the development of pathways for the sound management of our environment. (Emphasis on audio-visual aids—movies, slides, class presentations.) No prerequisites.

55.390 Independent Reading Course in Technology and Administration (c 00.25 through 02.00)

See Independent Reading Courses and Study Projects under General Curriculum Information.

55.396 Selected Topics**55.410 Essentials of Data Processing (c 01.00)**

A basic course in data processing for those interested in a fundamental look at the functions of data processing in the business and government worlds. Not to be taken in the technology of management program.

55.411 Introduction to Management Mathematics (c 01.00)

The emphasis is on the use of quantitative methods in decision-making. Designed for advanced undergraduates, the objective is to provide the student with working knowledge of mathematical reasoning that is basic to the new and powerful analytical tools of management which, when used properly, can yield valuable insights into interrelationships which are the essence of management decision-making.

55.431 Documentation of Programs and Systems (c 01.00)

Relationship between the management need for clear cut documentation of all aspects of computer systems and the requirements of the computer analysts' and programmers' needs. Various methods of documentation of computer programs and systems will be examined. *Prerequisites:* One programming language and 55.360.

55.432 Introduction to Simulation and Modeling (c 01.00)

Students will design and construct computer models and simulators and use them in applying the scientific method to the study of dynamic systems as in economics, ecology, and transportation. *Prerequisites:* One programming language, and 69.400.

55.433 FORTRAN Applications (c 01.00)

An advanced course whose purpose is to show how the computer can be used as a management tool using FORTRAN. *Prerequisite:* 55.333 or permission of the instructor.

55.434 COBOL Applications (c 01.00)

An advanced course whose purpose is to show how the computer can be used as a management tool using the COBOL programming language. *Prerequisite:* 55.334 or permission of the instructor.

55.435 PL/1 Applications (c 01.00)

An advanced course whose purpose is to show how the computer can be used as a manage-

ment tool using the PL/1 programming language. *Prerequisite:* 55.335 or permission of the instructor.

55.436 Computer Operating Systems Management (c 01.00)

What an operating system can do. How to communicate with the operating system to accomplish desired data processing goals. The course will relate to a specific operating system. *Prerequisites:* 55.333 or 55.334 or 55.335 or permission of the instructor.

55.440 Operation Research Concepts (c 01.00)

The scientific method, problem definition, statistical decision theory, model building, implementation and control of solutions, individual projects. *Prerequisites:* 69.300 and 41.111.

55.450 Information Storage and Retrieval (c 01.00)

Introduction to the technology of handling scientific technical and scholarly literature for purposes of information storage and retrieval. The impact of the computer is stressed as a tool which has revolutionized the field. The application of ADP techniques to the library is considered. The production of computer-aided indices and catalogs is surveyed. The course is designed for students interested in the application of modern information technology to the many branches of scholarship where it may relieve the tedium of conventional bibliographic searching. *Prerequisites:* 55.310 and 55.333.

55.460 Systems Analysis (c 01.00)

Provides basic background in the fundamentals of systems analysis, design, implementation, and utilization. *Prerequisites:* 55.360 and 55.337 or permission.

55.461 Human Factors in Systems Design (c 01.00)

The impact of systems design and its requirements on human behavior and development in the business organization. An examination of the practical effects of systems automation on personnel management. *Prerequisite:* 55.460.

55.471 Fundamentals of Technology of Management (c 01.00)

Basic analysis of functions of the manager who may become involved in dynamics of change brought about by advancing technology. Study of the interface between administration and technology. *Prerequisite:* 55.310.

55.481 Environmental Modeling (c 01.00)

This course will present systematic investigations of specific natural environments with emphasis on the analysis of technological inputs and will include the production of a "straw" model system for the demonstration of the mechanics of ecosystemic management to provide maximum use of environmental potentials on planet Earth. *Prerequisite:* 41.111, one year natural science, or permission.

55.490 Independent Study Project in Technology and Administration (c 00.25 through 02.00)

See Independent Reading Courses and Study Projects under General Curriculum Information.

55.491 Internship in Programming (c 01.00)

Various projects. *Prerequisite:* Permission of the program director.

55.498 Honors Tutorial in Technology of Management (c 01.00)

Prerequisite: Permission.

55.499 Honors Seminar in Technology of Management (c 01.00)

Prerequisite: Permission.

Graduate Courses

All courses listed below carry graduate credit. .500 level courses are open to graduate and qualified undergraduate students. Undergraduate students in .500 level courses receive one course unit for 3 or 4 semester hour credits. Courses at the .600 and .700 levels are open to graduate students only.

55.511 The Systems Approach (s 03.00)

Introduction to the systems analysis approach to the study and design of managerial and operational organization and process. Fundamental to all other courses in this general sequence, or for anyone who expects to be responsibly concerned with managerial, operational or control organizations and processes of business or government. Includes problem exercises to illustrate the rigor of the discipline and the nature and scope of its applications.

55.512 Introduction to Cybernetics (s 03.00)

Introduction to the abstractions of Cybernetics. Operational aspects of human intellect are translated into machine simulation and examined for validity of communication and control. The man-machine symbiosis is studied as a means to augment man's capability to solve complex problems. The stability of large and small systems through homeostatic control included. Mathematical explanations are kept at a minimum.

ADVANCED COURSES**55.513 Change and the Managerial Process (s 03.00)**

Effects of technological and scientific development on the organizational, operations, and staff functions of the public or private administrative establishment. Implications for the manager and managerial unit of the information and cybernetic revolutions, and modern technological instruments and methods for the performance of societal and administrative functions. Reciprocal effects of managerial requirements on technological development. Includes a general appreciation but not an intensive development of the significance of research and development for the general manager or administrator. *Prerequisite:* 55.511.

55.514 Operations Research Approach (s 03.00)

Concepts, applicability, limitations, and frontiers of operations research. Decision making, problem definition, model building, marginal analysis, utility. This course provides material basic to further study of operations research.

55.530 Real-Time Systems (s 03.00)

Large scale computer system organization and design. Detailed analysis and design of a large business or government computer system application followed by technical design of appropriate hardware/software and system specification. Queuing, communications, cost-benefit analysis, equipment capabilities and system design problems of real-time environment stressed. Emphasis on thorough development of system application and implementation rather than on hardware engineering or component design. *Prerequisites:* 55.310, and 69.400. An ability to handle moderately advanced mathematical and statistical tools is very desirable.

55.531 Computer Design (s 03.00)

Fundamentals of Boolean Algebra and logic design, design and functional operation of arithmetic, logic and control units, memory characteristics, analysis and comparison of organization of typical third generation small, medium, and large scale commercial computing systems. A non-engineering approach will be taken. *Prerequisite:* 55.530.

55.540 Operations Research in Management (s 03.00)

Overview of general field of Operations Research and its role in the decision making process. Modeling techniques and applications of a variety of prototype problems are covered, including linear programming, inventory and queuing models, replacement and maintenance models, Markov chains, simulation and dynamic programming models. Mathematics employed limited to elementary Algebra and Statistics, stresses the quantitative approach. Not to be taken if OR is a comprehensive field. *Prerequisite:* 69.300 or 69.400.

55.542 Probability and Statistics for Management Decisions (s 03.00)

Basic probability and statistics. Sampling, hypothesis testing, regression, analysis and correlation, analysis of variance, nonparametric tests. *Prerequisites:* 41.222 and 69.300 or 69.400.

55.544 Advanced Management Mathematics (s 03.00)

Review of mathematics necessary for advanced work in Operations Research. Sets and relations; mathematical induction series; limits and continuity; differentiation; optimization; integration; differential equations; probability theory. *Prerequisite:* 41.222. Not required where 41.223 (or equivalent) has been satisfactorily completed recently. This course will be required,

as a prerequisite for 55.641, of students whose differential and integral calculus were taken more than ten years ago.

55.550 Survey of Information Science and Technology (s 03.00)

Introductory survey of scientific and technical communications field with emphasis upon modern mechanized methods. Information theory, documentation, reprography, computer-aided photocomposition among the topics covered. Symbiotic relationship between the publishing field and information storage and retrieval systems stressed as underlying philosophy of the course. A prerequisite for all other courses in the Scientific and Technical Information Systems area. *Prerequisite:* 55.310 or equivalent experience.

55.560 Systems Design for Business Operations (s 03.00)

Opportunity to develop and defend specific management sciences techniques against both hypothetical and actual business operations and problem areas. Use of case studies, group discussions and projects, against current business operations, guidance in developing firm understanding of relationships and dependence upon interdisciplinary approaches to problem recognition, definition, development of alternatives and ultimate selection of optimum solution based on cost/effectiveness. *Prerequisite:* 55.530 and 55.511.

55.561 Management of Automatic Data Processing Systems (s 03.00)

Examination of unique problems, functions and requirements of data processing management. Within role of this management, planning, installation, operation and organization of computer facility examined. Executive interaction stressed, specifically in decision-making, planning and evaluation functions. The course content is developed through lectures and reports. *Prerequisite:* 55.530 and 55.511.

55.562 Management of Institutional Records Systems: Creation (s 03.00)

Nature and functions of records and record systems, in relation to totality of organization and administrative process. Reviews kinds and respective functions of institutional paper and paperwork, but gives primary emphasis to development and installation of a records management program. Physical facilities systems and equipment for storage of records and informational paper; reproduction process and equipment; mail; correspondence; and telecommunication. *Prerequisite:* Administrative experience, or undergraduate or graduate course work in government, public administration, business administration or CTA programs.

55.563 The Management of Institutional Records Systems: Maintenance and Retention (s 03.00)

Principles, methods, and techniques of records management in the maintenance and retention phases. This course covers a continuation of the material encompassed in 55.562 and requires completion of that course as a prerequisite.

55.570 Management of Research and Engineering Organizations (s 03.00)

Basic course on management of research and engineering organization. Discussion of the full spectrum of elements in such an organization, utilization of resources, comparison of government and business, establishment of procedures and methodologies for effective and efficient operations. *Prerequisites:* Permission.

55.571 Technological Forecasting (s 03.00)

Review of principal methodologies of technological forecasting involving establishment of long range goals definable in technical terms, and consequent preferred means of achieving them; usefulness and limitations from the viewpoint of practitioner as well as manager. Relationship to planning, technological transfer and assessment. Case studies. *Prerequisites:* 55.411, 55.570, or permission.

***55.580 Environmental Systems Analysis—A Survey Course (s 03.00)**

Multidisciplinary, integrative, ecological analysis of three environmental systems of earth; air, land, and water. Curriculum includes a-biotic and biotic factors of the environment as each flows from its particular systemic niche. (Laboratory).

***55.580 Coastal and Estuarine Environmental Survey (s 03.00)**

A review of physical, chemical, and biotic interrelationships in these special ecological zones; basic problems in management of these areas with respect to political and economic overtones.

55.581 Technological Systems Management of the Environment (s 03.00)

Technology of management of air, water and land systemic complexes with reference to the present level of monitoring devices and programs on the computerization-automation in environmental monitoring. (Laboratory).

***55.581 Engineering Principles/Environmental Management (s 03.00)**

A description of the kinds of technological problems, equipment, political issues, ecological imbalances, and biological consequences of marine exploitations such as ocean mining, ocean dumping, aquaculture, port and harbor construction, marine waste treatment facilities location, etc. To acquaint environmental management persons with the issues faced by marine engineers.

***55.582 Administrative Systems of the Environment (3)**

Governmental management of air, water and land systemic complexes with reference to control laws and regulatory statutes at federal, state and local levels.

***55.582 Marine Law (s 03.00)**

Principles of ocean law to inform managers of the types of legal issues with which they might be confronted in this aspect of ocean affairs.

***55.588 Dial Access Reading Course: Pollution Problems (s 01.00 through 06.00)**

Offers one course unit credit to students and may be taken at student's convenience. Course, however, must be taken in language lab. Films and tapes are provided by the instructor. Research paper is required.

***55.588 Dial Access Reading Course: Malnutrition-Mental Retardation-Public Administration (s 01.00 through 06.00)**

Offers one course unit credit to students and may be taken at student's convenience. Course, however, must be taken in language lab. Films and tapes are provided by the instructor. Research paper is required.

***55.588 Dial Access Reading Course: Housing Problems-Urban Rural Migrant in Relation to Production-Pollution-Population-Crisis (s 01.00 through 06.00)**

Offers one course credit to students and may be taken at the student's convenience. Course, however, must be taken in language lab. Films and tapes are provided by instructor. Research paper is required.

* These courses are part of the series in environmental systems management. The courses in this series come in two sets at this time: (1) a general set of courses in total environmental systems management; and (2) that set designed as a speciality set directed specifically to the management of ocean affairs. Course titles and descriptions for both sets are listed above and further below in this numerical listing of courses of instruction.

55.590 Independent Reading Course in Technology and Administration (s 01.00 through 06.00)

See Independent Reading Courses and Study Projects under General Curriculum Information.

55.632 Simulation and Modeling (s 03.00) (formerly Advanced Computer Applications)

Design, development and programming of mathematical models and simulations. Deterministic, stochastic and heuristic models, measurement and scientific method, data acquisition and field work. Related programming techniques. *Prerequisites:* one programming language, 55.530, or permission.

55.633 Programming Systems and Language (s 03.00)

Examination of basic attributes of major classes of programming languages and systems. Characteristics that describe basic differences between types of languages emphasized. Roles of various operating systems briefly examined; as well as problems of operating systems design, and implementation. *Prerequisites:* 55.633 or 55.634 or 55.635 and 55.530.

55.635 Workshop in Computer Systems (s 03.00)

Advanced computer applications with emphasis on special projects. *Prerequisites:* 55.632 and permission.

55.637 Workshop in Operating Systems (s 03.00)

Operating system concepts necessary for the management of automatic data processing installation. Includes job scheduling, program management, and data files. Utilities, compilers, special purpose languages, telecommunications, and software sources are also discussed. *Prerequisites:* 55.633.

55.640 Systems Analysis/Operations Research in Public Administration (s 03.00)

Introduction to systems analysis/operations research. Solution of decision making problems at operations and policy making levels of international, national, and local governing bodies, using the scientific method. Evaluation of particular solutions. Not to be taken as a field course in the operations research master's comprehensive field.

55.641 Methods of Operations Research I (s 03.00)

Mathematical techniques in operations research, Part I. Linear and non-linear programming, game theory, inventory theory. *Prerequisites:* 55.514, 55.542 and 55.544 or equivalent.

55.642 Methods of Operations Research II (s 03.00)

Mathematical techniques of operations research, Part II. Role of selected probability distributions in OR, queuing theory and applications, Markov processes, dynamic programming and extensions and integrating Markov processes, selected problems in simulation. *Prerequisite or parallel:* 55.641.

55.645 Workshops in Operations Research (s 03.00)

Depending upon current interests of the student body, special topics will be taken up in depth. They will be selected from such subjects as maintenance, reliability, advanced topics in mathematical programming, and capital investments. Where required, advanced mathematical and statistical techniques will be covered. *Prerequisites:* 55.642.

55.646 Cost-Benefit Analysis (s 03.00) (formerly 55.666)

Examination of the techniques used to evaluate non-market oriented goods and services. *Prerequisites:* 55.542 and 55.544 or 41.223.

55.650 Natural Language Data Processing (s 03.00)

Basic knowledge of computational linguistics, useful in any field in which computer is called upon to interpret or to analyze natural language such as indexing and classifying documents, extracting and abstracting, analyzing stylistic variations, machine translation and automating concordances. Non-specialist oriented introduction to field for information scientists, computer programmers, librarians and others interested in learning the scope of computer applications in alleviating some of the more tedious and repetitive tasks of scholarly research. Students of modern linguistics should be particularly concerned with the implications of this powerful tool in their discipline. *Prerequisite:* 55.550 or equivalent experience.

55.653 Concept of Abstracting and Indexing (s 03.00)

The impact of automatic data processing and mechanized methods upon processing and dissemination of information, emphasizes mainly intellectual functions to which this information must be subjected before and after machine intervention. "Arts" of abstracting and indexing. Analyzes technical writing, annotating, indicative and informative abstracting, classification methods including the Universal Decimal Classification and faceted classification, word indexing both in- and out-of-context, vocabulary control and Thesaurus-building, links and roles, citation indexing and relevance/recall ratios. Students must abstract and index limited number of documents in their own fields of interest and specialization. *Prerequisite:* 55.550 or equivalent experience.

55.654 Workshops in Technical Information Handling (s 03.00)

From time-to-time, as warranted by current interest, faculty availability and composition of the student body, special topics will be covered. Examples are chemical notation systems, specialized information needs of various disciplines and professions (e.g. law, medicine, business administration, etc.), and integrated information networks. Students may repeat this course several times, provided that identical topics are not duplicated. *Prerequisite:* 55.550 or permission of the instructor.

55.656 Publication Techniques (s 03.00)

Careful analysis of primary journal publication with emphasis on economic factors. Computer-aided photocomposition technology, emphasis on machines such as the Photon, Videocomp and Linotron. Mechanized processing of primary publications, abstracts and indexes as part of an integrated system in which scientific and technical publications are part-and-parcel of information storage and retrieval systems. *Prerequisite:* 55.550 or permission.

55.660 Management Information and Reporting Systems (s 03.00)

Provides an understanding of the complexity of an integrated information system and its components. Covers system design, development, application, utilization and evaluation. Various philosophies concerning the manner and degree of depth and breadth of the integrated management information system approach reviewed. Advanced management techniques (e.g., real-time systems, time sharing, file management systems, models, simulations, operations research and cybernetics) are discussed in terms of their applicability to Management Information and Reporting Systems. *Prerequisites:* 55.560.

55.665 Workshop in Management Information Systems (s 03.00)

Advanced Management Information Systems applications with emphasis on special projects. *Prerequisite:* 55.660, and permission.

55.670 The Politics and Economics of Research and Development (s 03.00)

Magnitude, characteristics, and politico-economic significance of the R&D economy of the U.S. and, comparatively, of other countries. Structure and nature of the U.S. research industry. Government-business defense economy. Governmental non-military research. Business and industrial research. Trends and forecasts. National resources allocation, and other political and economic problems. *Prerequisite:* permission.

55.671 R & D in the Total Organization (s 03.00)

Criteria for top management; decisions; (a) capabilities of scientific, technological and social science research; (b) utilization for needs of the specific organization; (c) definition of R&D requirements, in-house and/or external implementation, determination of budget; (d) evaluation of success and contribution to organizational objectives; (e) conversion of R&D results into governmental or business applications, products, or processes. *Prerequisite:* 55.570.

55.672 Scientific and Engineering Manpower (s 03.00)

Study in depth of scientific and engineering manpower stressing role of individual in the R&D environment and his interface with the total resources of which he is a part. Impact of the innovative forces at work. For advanced graduate students. *Prerequisites:* 55.570 and at least one other of the above R&D courses.

55.673 Planning and Control of Research and Development Operations (s 03.00)

Study in depth of role of today's research and development manager. Review of operational policies and goals. Forecasting, planning and programming techniques, analysis methodology. Exercise of "value judgments." Intended for the advanced graduate student. *Prerequisites:* 55.570 and at least one other of the above R&D courses. NOTE: if 55.770 is not offered in any given semester, 55.673 will be accepted as the SGPA Master's research requirement (in lieu of thesis).

***55.683 Pollution Abatement Potentials (s 03.00)**

In-depth study of the three major contributors to environmental systematic pollution; agriculture, industry, and municipal wastes, with emphasis on re-routes and re-cycling. (Laboratory).

***55.683 Marine Pollution (s 03.00)**

Directed at waste treatment practices, recycling during in-plant productions; by-product recovery; and materials balance in operating procedures in major industries as they attempt to meet statutory regulations under the clean air and water pollution control acts.

***55.684 Environmental Management in Relation to Conservation Practices (s 03.00)**

Preservation of natural ecosystemic balance in limnological, marine and terrestrial environments

through public administration at federal, state and local levels; through public education and through monitoring systems such as tagging of biotic species; radiation devices; weather regulation; etc.

***55.684 Conservation Management and the Marine Environment (s 03.00)**

Conservation of species, including endangered ones, resource recovery and materials balance as these items relate to ocean management.

***55.685 Workshop in Environmental Systems Management (s 03.00)**

May be taken more than once. From time to time, as warranted by current interest, faculty availability, and composition of the student body. These workshops focus on individual environmental problems and may involve field investigations.

***55.685 Ocean Affairs (s 03.00)**

Topic will be variable and dependent upon student interests as these relate to contemporary issues. For example, membrane filtration modeling techniques, cost-benefit analysis, wetlands and remote sensing techniques, environmental impact and assessment techniques, and others.

55.690 Independent Study Project in Technology and Administration (s 01.00 through 06.00)

See Independent Reading Courses and Study Projects under General Curriculum Information.

55.696 Selected Topics (Non-Recurring) (s 03.00)

55.730 Seminar in Computer Systems Applications (s 03.00)

Prerequisite: permission of the program director and completion of 3 Computer Systems Applications field courses.

55.740 Seminar in Operations Research (s 03.00)

Prerequisite: permission of the program director.

55.750 Seminar in Scientific and Technical Information Systems (s 03.00)

Prerequisite: permission of the program director.

55.760 Seminars in Management Information Systems (s 03.00)

Prerequisite: permission of the program director.

55.770 Seminar in Research and Development Management (Master's) (s 03.00)

For course content, see 55.673. Offered for students whose program requires a seminar in lieu of a thesis for a master's degree. *Prerequisite:* 55.570 and at least one other of the above R & D courses, and permission of the program director.

55.775 Seminar in Research and Development Management (Doctoral) (s 03.00)

Critical review of literature pertinent to modern R & D management, intended to develop within the R & D executive a clear grasp of the applicability of current knowledge of problem solving. A study in depth of today's research and development manager. Intended for the very advanced graduate student. *Prerequisite:* permission of the program director.

***55.780 Seminar in Environmental Systems Management (s 03.00)**

Specific industries; geographic locations and interferent materials will be analyzed in depth in relation to their particular production-pollution contribution. Special topics will change as warranted by current interests, faculty availability and composition of student body. *Prerequisite:* permission of the program director.

***55.780 Seminar in Marine and Coastal Zone Management (s 03.00)**

Professional presentations of topics of current interest by leaders in the field; field inspection trip to area of class choice; preparation for comprehensive examination.

*These courses are part of the series in environmental systems management. The courses in this series come in two sets at this time: (1) a general set of courses in total environmental systems management; and (2) that set designed as a speciality set directed specifically to the management of ocean affairs. Course titles and descriptions for both sets are listed above and beginning at 55.580 in this numerical listing of courses of instruction.

55.797 Master's Thesis Seminar (s 03.00 through 06.00)

55.799 Doctoral Dissertation Seminar (s 03.00 through 12.00)

RADIO INSTRUCTION

31.571 Ecology and the Human Environment (s 03.00)

A broad overview of many environmental issues facing the world communities today. This survey course is relevant both to the general environmental systems management program, and to the management of ocean affairs curriculum.

1973-1974 Full-time Faculty

THE FACULTY LIST BELOW COVERS THE 1973-1974 ACADEMIC YEAR ONLY.

A

Akins, J. Carl (1970), B.A., University of Texas; M.A., Ph.D., Harvard University. *Associate Professor of Government and Public Administration.*

Aldridge, Mary (1955), B.S., University of Georgia; M.A., Duke University; Ph.D., Georgetown University. *Professor of Chemistry.*

Allen, George R. (1971), B.S., M.B.A., University of Pittsburgh; D.B.A., Arizona State University. *Associate Professor of Policy and Behavior, Business Administration.*

Allen, Valerie F. (1970), A.B., Cornell University; M.A., Ph.D., University of California, Los Angeles. *Assistant Professor of History.*

Anderson, Laird B. (1973), B.S., Florida State University; M.A., The American University. *Assistant Professor of Communication.*

Anderson, Richard (1966), B.S., Lewis and Clark College; M.S., Ph.D., University of Maryland. *Associate Professor of Biology.*

Anthon, Carl G. (1961), B.A., University of Chicago; M.A., Ph.D., Harvard University. *Professor of History.*

Arnold, Steven H. (1970), B.A., Occidental College; M.A., Ph.D., Johns Hopkins University. *Assistant Professor of International Relations and Latin American Studies, International Service.*

B

Baker, Kenneth (1966), B.A., M.A., University of Kansas. *Associate Professor of Performing Arts.*

Baker, Sarah (1945), Pennsylvania Academy of Fine Arts; Academie Montparnasse; Phillips Memorial Gallery. *Professor Emeritus of Art.*

Balsham, Joel (1971), A.B., A.M., Temple University; Ed.D., University of Massachusetts. *Assistant Professor of Education.*

Banta, William (1970), B.A., University of California at Berkeley; Ph.D., University of Southern California. *Associate Professor of Biology.*

Baranovic, Boris (1966), B.A., Amherst College; M.F.A., Yale University. *Assistant Professor of Performing Arts.*

Barldon, Philip (1972), B.A., Bucknell University; M.A., State University of New York at Albany. *Instructor in Administration of Justice.*

Barrett, Nancy (1966), B.A., Goucher College; M.A., Ph.D., Harvard University. *Professor of Economics.*

Barron, Austin (1971), B.S., College of the City of New York; M.S., Ph.D., Purdue University. *Assistant Professor of Mathematics and Statistics.*

Bartfeld, Charles I. (1966), M.B.A., Ph.D., Columbia University. *Professor of Management Sciences, Business Administration;*

Assistant Dean, M.B.A. Program; Director, Operations Analysis Program.

Bartoo, Diane C. (1973), B.S., University of Florida. *Instructor, Medical / Surgical Nursing.*

Bassler, Richard A. (1969), B.S., University of Colorado; M.S., The George Washington University; C.D.P.; C.D.E. *Associate Professor of Computer Systems Applications; Program Director, Computer Systems Applications.*

Batchelder, Merritt C. (1935), B.A., Hillsdale College; M.A., Columbia University; Ph.D., Iowa State University. *Professor Emeritus of English.*

Bean, Arthur Jr. (1963), B.A., M.A., University of Virginia; M.S., The Catholic University of America. *Assistant Professor of Literature.*

Beckhoefer, Ina (1973), B.S., Simmons College; M.S., The American University. *Instructor in Real Estate and Urban Development.*

Beisner, Robert L. (1965), M.A., Ph.D., University of Chicago. *Professor of History.*

Berman, Alan (1969), B.A., The Johns Hopkins University; M.A., Ph.D., The Catholic University of America. *Associate Professor of Psychology.*

Betts, Madeleine (1969), B.A., M.A., Université d'Ottawa; Ph.D., University of Illinois. *Associate Professor of Languages and French Studies.*

Blanchard, Robert O. (1965), B.S.J., M.S.J., Northwestern University; Ph.D., Syracuse University. *Professor of Communication.*

Bliss, Edward L. Jr. (1968), B.A., Yale University. *Professor of Communication.*

Blose, Barry L. (1969), B.A., Yale University; M.A., Ph.D., Columbia University. *Assistant Professor of Philosophy.*

Boddy, Rafor (1972), B.A., University of California; Ph.D., University of Michigan. *Associate Professor of Economics.*

Bodine, John J. (1968), B.A., University of Oklahoma; M.A., Ph.D., Tulane University. *Associate Professor of Anthropology.*

Bonham, G. Matthew (1972), B.A., Northwestern University; Ph.D., Massachusetts Institute of Technology. *Associate Professor of Government and Public Administration.*

Boren, John (1969), B.A., University of Texas; M.A., Ph.D., Columbia University. *Professor of Psychology.*

Borkovec, Vera Z. (1966), M.A., Hollins College; M.A., The American University; Ph.D., Georgetown University. *Assistant Professor of Languages and Russian Studies.*

Bowles, W. Donald (1957), B.A., University of Washington; M.A., Ph.D., Columbia University. *Professor of Economics.*

Boynton, Robert Paul (1969), B.A., Calvin College; M.A., Ph.D., University of Michigan.

Professor of Government and Public Administration.

Brabanski, Lothar (1957), Master, Academy of Fine Arts, Berlin. *Associate Professor of Art.*

Bradshaw, Mary E. (1950), B.A., Pennsylvania College; M.A., Ph.D., University of Wisconsin. *Professor Emeritus of International Relations.*

Brandenburg, David J. (1948), B.S., Bowdoin College; M.A., Ph.D., Columbia University. *Professor of History.*

Braun, Ann B. (1963), B.A., M.A., Boston University; Ph.D., University of New Hampshire. *Associate Professor of Chemistry.*

Bray, Richard M. (1954), B.A., M.A., University of Colorado. *Professor Emeritus of Government and Public Administration.*

Brenner, Donald R. (1971), B.S., J.D., Ohio State University. *Assistant Professor of Real Estate and Business Law, Business Administration.*

Breyere, Edward J. (1961), B.S., M.S., Ph.D., University of Maryland. *Professor of Biology.*

Brill, Earl H. (1971), A.B., University of Pennsylvania; Th.B., Philadelphia Divinity School; Th.M., Princeton Theological Seminary; Ph.D., The American University. *Assistant Professor of History.*

Brown, David C. (1971), A.B., The American University; M.A., M.Phil., Ph.D., State University, Rutgers. *Assistant Professor of Government and Public Administration; Director, Washington Semester Program.*

Brown, Donald E. (1973), B.S., Syracuse University; M.C.S., Texas A&M University. *Lecturer in Computer Systems Applications.*

Brown, James Ory (1973), B.A., University of Southwestern Louisiana; M.A., University of California, Los Angeles. *Assistant Professor of Performing Arts.*

Brown, Roger H. (1965), B.A., M.A., Ph.D., Harvard University. *Professor of History.*

Bryant, Coralie (1967), A.B., Barnard College; Ph.D., London School of Economics. *Associate Professor of Government and Public Administration; Associate Dean for Graduate Studies.*

Bufford, Rodger K. (1971), B.A., King's College; M.A., Ph.D., University of Illinois. *Assistant Professor of Psychology.*

Burhoe, Sumner O. (1956), B.S., University of Massachusetts; M.S., Kansas State University; Ph.D., Harvard University. *University Professor Emeritus of Biology.*

Burkart, Edward I. (1960), B.S., M.S., Georgetown University; Ph.D., University of Pennsylvania. *Associate Professor of Linguistics.*

Burkhart, Geoffrey L. (1968), B.A., Oakland University; Ph.D., University of Rochester. *Assistant Professor of Anthropology.*

Burns, Kirk L. (1968), B.S., U.S. Naval Academy; M.A. University of Washington; Ph.D., University of Paris. *Associate Professor of*

Management Sciences, Business Administration.

Burr, Samuel Engle Jr. (1947), Litt.B., State University, Rutgers; M.A., University of Wisconsin; M.A., Columbia University; Ed.D., University of Cincinnati. *Professor Emeritus of Education.*

Bush, George P. (1948), M.B.A., Harvard University; M.A., Ph.D., The American University. *Professor Emeritus of Government and Public Administration.*

Butts, James R. (1964), B.S., Virginia Polytechnic Institute; M.S., New York University. *Assistant Professor of Marketing, Business Administration.*

C

Callen, Earl R. (1968), B.A., M.A., University of Pennsylvania; Ph.D., Massachusetts Institute of Technology. *Professor of Physics.*

Cannon, Thomas F. Jr. (1972), A.B., A.M., Boston College; Ph.D., University of Virginia. *Assistant Professor of Literature.*

Cantor, Muriel (1968), B.A., M.A., Ph.D., University of California, Los Angeles. *Associate Professor of Sociology.*

Cantrell, Thomas S. (1971), B.S., M.S., University of South Carolina; Ph.D., Ohio State University. *Associate Professor of Chemistry.*

Carson, Frederick W. (1970), B.S., Massachusetts Institute of Technology; M.A., Washington University; Ph.D., University of Chicago. *Associate Professor of Chemistry.*

Chabot, Charles B. (1971), B.A., Colgate University; M.A., Clark University; Ph.D., State University of New York at Buffalo. *Assistant Professor of Literature.*

Champ, Michael A. (1972), B.S., M.S., Ph.D., Texas A&M University. *Assistant Professor of Biology.*

Chang, I-Lok (1970), B.S., California Institute of Technology; Ph.D., Cornell University. *Assistant Professor of Mathematics and Statistics.*

Charbonneaux, Marie A. (1960), Baccalauréate, Licence-en-Droit, University of Paris; Etudes Pratiques d'Anglais, Sorbonne. *Assistant Professor of Languages and French Studies.*

Cherin, Bernard (1972), B.S., Columbia University. *Assistant Professor of Communication.*

Chertok, Benson T. (1966), B.S., M.S., Massachusetts Institute of Technology; Ph.D., Boston University. *Associate Professor of Physics.*

Child, Margaret S. (1973), B.A., Mount Holyoke College; M.A., Cornell University; Ph.D., University of Maryland. *Assistant Professor of History.*

Chinnis, Robert J. (1964), B.S., East Carolina College; M.Ed., University of North Carolina;

Ed.D., University of Maryland. *Associate Professor of Education.*

Chow, Esther Ngan Ling (1973), Diploma, Chung Chi College, Hong Kong; B.Soc.Sc., Chinese University of Hong Kong; M.A., Southern Illinois University; M.A., Ph.D., University of California, Los Angeles. *Assistant Professor of Sociology.*

Cirafici, Peter J. (1971), A.A.S., Brooklyn College; B.S., University of Bridgeport; M.S., University of Miami. *Instructor in Accounting, Business Administration.*

Clark, Charles M. (1941), B.A., M.A., Ph.D., Cornell University. *Professor of Literature.*

Clarke, Duncan L. (1970), A.B., Clark University; J.D., Cornell University; Ph.D., University of Virginia. *Assistant Professor of International Relations, International Service.*

Cleary, Robert E. (1965), B.A., M.A., Montclair State College; M.A., Ph.D., State University, Rutgers. *Professor of Government and Public Administration; Provost.*

Cole, Lenora (1973), B.S., State University College at Buffalo; M.Ed., Ph.D., State University of New York at Buffalo. *Assistant Professor of Education; Vice President for Student Life.*

Collins, Morris W. H. Jr. (1973), B.A., M.A., University of Georgia; Ph.D., Harvard University. *Professor of Government and Public Administration; Dean, College of Public Affairs.*

Cornell, E. Kevin (1970), B.A., Swarthmore College; M.S., Ph.D., University of Illinois. *Assistant Professor of Physics.*

Correll, Ernst (1929), Dr.oec.Publ., Munich. *Professor Emeritus of Economic History.*

Coulumbis, Theodore A. (1965), B.A. University of Connecticut; M.A., Georgetown University; Ph.D. The American University. *Professor of International Relations, International Service.*

Coward, Billy G. (1964), B.S., B.A., M.A., The American University. *Associate Professor of Physical Education.*

Crawford, Horace D. (1946), B.A., Hillsdale College. *Professor Emeritus of Communication.*

Cromwell, William C. (1963), B.A. Emory University; M.A., Ph.D., The American University; *Associate Professor of International Relations and Western European Studies, International Service; Associate Dean, School of International Service.*

Crosby, David (1966), B.A., The American University; M.A., Ph.D., University of Arizona. *Associate Professor of Mathematics and Statistics.*

Crowder, Charles (1967), B.Mus., Lawrence College; M.A., Columbia University. *Associate Professor of Performing Arts.*

Culbertson, Stuart A. (1971), B.A., Arizona State University; M.A., Ph.D., Bowling Green

State University. *Assistant Professor of Psychology.*

Czapanskiy, Dana (1970), B.A., Hofstra University. *Assistant Professor, Pride/American University Institute.*

D

Daley, Elizabeth M. (1972), B.A., M.A., Tulane University; Ph.D., University of Wisconsin. *Assistant Professor of Performing Arts.*

D'Arista, Robert A. (1961), New York University; Columbia University; Academie Grand Chaumiere, Paris. *Professor of Art.*

Davenport, Nancy G. (1969), B.S.N., M.S.N., Duke University. *Assistant Professor of Medical/Surgical Nursing.*

Davis, Harold E. (1947), B.A., Hiram College; M.A., University of Chicago; Ph.D., Western Reserve University. *University Professor Emeritus of History and International Service.*

DeLong, Earl H. (1963), B.S., M.A., Ph.D., Northwestern University. *Professor and Dean Emeritus, School of Government and Public Administration.*

DePass, Calvin L. (1971), B.S., Portland State College; M.A., University of Oregon. *Instructor in Economics and International Service.*

Devor, John W. (1956), B.A., M.A., University of Kansas; Ph.D., University of Chicago. *Professor Emeritus of Education.*

Dhillon, Gita (1966), B.Sc., Christian Medical College Hospital, India; M.Ed., Columbia University. *Assistant Professor of Maternal Child Nursing.*

Di Bacco, Thomas V. (1965), B.A., Rollins College; M.A., Ph.D., The American University. *Associate Professor of History.*

Dulin, William C. (1968), A.B., Western Reserve University; M.B.A., Harvard University; Ph.D., The American University. *Associate Professor of Finance, Business Administration.*

Durflee, Harold A. (1955), Ph.B., University of Vermont; B.D., Yale University; Ph.D., Columbia University. *William Frazer McDowell Professor of Philosophy.*

E

Earle, Chester B. (1955), B.A., Ph.D., University of Texas. *Professor of Government and Public Administration.*

Eisenstein, Elizabeth (1970), B.A., Vassar College; M.A., Ph.D., Radcliffe College. *Associate Professor of History.*

Elliott, William Y. (1963), B.A., M.A., Vanderbilt University; Ph.D., Yale University. *University Professor Emeritus of International Service, Government and Public Administration.*

Eno, Irene W. (1961), Certificate, Sacker's School of Design. *Professor of Art.*

F

- Fair, Marvin L.** (1958), B.A., University of Ohio; M.A., Ph.D., Ohio State University. *Professor Emeritus of Transportation and Logistics, Business Administration.*
- Farsoun, Samih** (1973), B.A., Hamilton College; M.A., Ph.D., University of Connecticut. *Assistant Professor of Sociology.*
- Fay, Keith** (1973), B.S., M.B.A., Arizona State University; Ph.D., The American University. *Visiting Assistant Professor of Marketing.*
- Feagans, Hazel H.** (1929), B.A., The George Washington University; M.A., The American University. *Professor Emeritus of English.*
- Feltus, Alan E.** (1972), B.F.A., The Cooper Union; M.F.A., Yale University. *Assistant Professor of Art.*
- Ferster, Charles** (1969), B.S., State University, Rutgers; M.A., Ph.D., Columbia University. *Professor of Psychology.*
- Filipoff, Boris** (1969), B.A., Leningrad Oriental Institute; M.A., Leningrad Institute of Industrial Construction. *Associate Professor of Languages and Russian Studies.*
- Finn, Patricia A.** (1969), B.S.N., M.S.N., The Catholic University of America. *Assistant Professor of Psychiatric Mental Health Nursing.*
- Flory, William E. S.** (1969), A.B., Wooster College; A.M., Ph.D., Duke University. *Associate Professor of Marketing, Business Administration.*
- Foley, Robert T.** (1964), B.S., University of Massachusetts; M.S., Lafayette College; Ph.D., University of Texas. *Professor of Chemistry.*
- Fox, Richard** (1970), B.A., Northeastern University; Ph.D., University of Hawaii. *Associate Professor of Biology.*
- Fox, Robert P.** (1971), B.S., M.S., Georgetown University; Ph.D., University of Illinois. *Associate Professor and Director, English Language Institute.*
- Frady, James D. Jr.** (1964), A.B., M.Ed., University of North Carolina. *Associate Professor of Physical Education.*
- Frailey, Robert H.** (1949), B.S., M.A., The American University. *Professor of Physical Education.*
- Frederickson, Theodore P. Jr.** (1974), B.A., University of North Dakota; M.A., The American University. *Assistant Professor of Communication.*
- Freeman, Martin** (1971), B.E.E., Rensselaer Polytechnic Institute; M.S.E.E., Columbia University; Ph.D., University of Pennsylvania. *Assistant Professor of Mathematics and Statistics.*
- Fritschler, A. Lee** (1964), B.A., Union College; M.P.A., Ph.D., Syracuse University. *Professor and Dean, School of Government and Public Administration.*

Fromm, Gary (1970), B.M.E., Cornell University; M.S., Massachusetts Institute of Technology; M.A., Ph.D., Harvard University. *Professor of Economics.*

G

- Gabriel, Ralph H.** (1958), B.A., M.A., Ph.D., Yale University. *University Professor Emeritus, International Service.*
- Gammon, Wm. Howard** (1970), B.A., The George Washington University; M.A., The American University; D.B.A., The George Washington University. *Assistant Professor of Management Information Systems.*
- Garrard, Mary D.** (1964), B.A., Newcomb College; M.A., Radcliffe College; Ph.D., The Johns Hopkins University. *Associate Professor of Art.*
- Gates, Robert F.** (1946), Detroit School of Arts and Crafts; Art Students' League of New York; Phillips Gallery; Colorado Springs Fine Arts Center. *Professor of Art.*
- Geiser, Daniel S.** (1966), B.A., Juniata College; M.A., Ohio State University; Ed.D., Columbia University. *Professor of Physical Education.*
- * Gimble, Josephine G.** (1966), B.S., The American University; M.S.N., The Catholic University of America. *Associate Professor of Medical/Surgical Nursing.*
- Glazer, Herbert** (1968), A.B., A.M., Ph.D., Boston University. *Professor of Policy and Behavior, Business Administration.*
- Goldin, Jessica W.** (1966), B.A., Long Island University; M.A., Columbia University. *Associate Professor of Spanish and Latin American Studies.*
- Goldsmith, Jack** (1972), B.A., M.A., University of California at Berkeley; Ph.D., University of California, Los Angeles. *Associate Professor of Administration of Justice.*
- Gondos, Dorothy D.** (1947), B.A., Swarthmore College; M.A., Ph.D., University of Pennsylvania. *Professor of History.*
- Goodman, Charles H.** (1956), B.S., Wilson Teachers College; M.S., Ph.D., Pennsylvania State University. *Professor of Government and Public Administration.*
- Gorman, Ronald H.** (1969), B.B.A., M.B.A., University of Cincinnati; Ph.D., Ohio State University. *Assistant Professor of Policy and Behavior, Business Administration.*
- Gottesman, Alexander** (1973), B.S., M.A., The George Washington University; Ed.D., George Peabody College for Teachers. *Assistant Professor of Education.*
- Graham, Michael T.** (1973), B.A., University of Pennsylvania; M.F.A., Yale University. *Assistant Professor of Art.*

Gray, James (1970), B.A., Maryknoll College; M.A., Ph.D., Fordham University. *Associate Professor of Psychology.*

Gray, Mary W. (1968), B.A., Hastings College; M.A., Ph.D., University of Kansas. *Professor of Mathematics and Statistics.*

Green, J. Ronald (1971), B.A., Rice University; Ph.D., State University of New York at Buffalo. *Assistant Professor of Literature.*

Greenberg, Gershon (1973), B.A., Bard College; Ph.D., Columbia University-Union Theological Seminary. *Associate Professor of Philosophy.*

Gregg, Robert W. (1970), A.B., Colgate University; Ph.D., Cornell University. *Professor of International Relations, International Service; Dean, School of International Service.*

Griffin, Billy R. (1971), B.S., Arkansas Polytechnic College; M.S., Ph.D., University of Arkansas. *Assistant Professor of Biology.*

Griffith, Ernest S. (1958), A.B., Hamilton College; D.Phil., Oxford. *Founding Dean and University Professor Emeritus, International Service.*

Gross, Chalmer A. (1959), B.S., M.S., University of Illinois; Ph.D., University of Chicago. *Professor of Education.*

Grotberg, Edith (1963), B.A., Northwestern University; M.A., University of Chicago; Ph.D., Northwestern University. *Professor of Education.*

H

Hadary, Doris E. (1962), B.S., University of Illinois; M.S., Ph.D., University of Wisconsin. *Associate Professor of Chemistry.*

Hadermann, Albert F. (1971), B.S., College of the City of New York; M.S., Ph.D., The American University. *Assistant Professor of Chemistry.*

Halal, William (1971), B.S., Purdue University; M.B.A., Ph.D., University of California at Berkeley. *Assistant Professor of Policy and Behavior, Business Administration.*

Hallahan, Charles (1970), B.S., Tufts University; M.S., Ph.D., State University, Rutgers. *Assistant Professor of Mathematics and Statistics.*

Hall, Janice C. (1973), B.A., The American University; M.S.N., Catholic University of America. *Instructor, Medical/Surgical Nursing.*

Halpern, Katherine (1970), B.A., Vassar College; Ph.D., University of Chicago. *Professor of Anthropology.*

Hammaker, John (1971), B.A., M.B.A., Northwestern University; Ph.D., Georgia State University. *Assistant Professor of Urban Development and Real Estate, Business Administration.*

Hammond, Susan (1972), A.B., Bryn Mawr College; M.A., Ph.D., The Johns Hopkins Uni-

versity. *Assistant Professor of Government and Public Administration.*

Hampton, Joseph E. (1961), B.S., University of Florida; M.A., Ph.D., Ohio State University; C.P.A. *Professor of Accounting; Director, Office of the Budget.*

Han, Pierre (1964), B.A., The Catholic University of America; M.A., Ph.D., Columbia University. *Professor of Literature.*

Hanus, Jerome J. (1966), B.A., University of Seattle; M.A., University of Washington; Ph.D., University of Maryland. *Associate Professor of Government & Public Administration.*

Hardwick, Charley D. (1967), B.A., Southern Methodist University; B.D., Drew University; M.A., Ph.D., Yale University. *Associate Professor of Religion.*

Harnden, Glenn P. (1969), A.B., M.A., Stanford University. *Assistant Professor of Communication.*

Harris, George L. (1965), B.A., University of Washington; Ph.D., The Catholic University of America. *Associate Professor of Anthropology and International Service.*

Harrison, Mark (1960), B.S., Northeast Missouri State College; Ph.D., The Catholic University of America. *Professor of Physics.*

Hattery, Lowell H. (1948), B.A., Ohio University; Ph.D., The American University. *Professor of Management and Public Administration; Program Director, Science/Technology Policy and Administration.*

Hawke, Virginia (1950), B.S., M.A., Ohio State University. *Professor of Physical Education.*

Hayes, Evelyn S. (1951), B.M., University of Kansas; Tobias Matthay Piano School, London. *Professor of Music.*

Hays, James (1970), B.S., University of Maryland; M.S., Ph.D., Tufts University. *Assistant Professor of Psychology/Mathematics and Statistics.*

Hearne, David (1973), B.A., Oklahoma Baptist University. *Assistant Professor of Communication.*

Heimsath, Charles H. (1959), B.A., Yale University; M.I.A., Columbia University; Ph.D., Yale University. *Professor of South Asian Studies.*

Hemple, William E. (1972), B.A., Syracuse University; M.A., The American University. *Instructor in Administration of Justice.*

Hendrix, J. Allen (1965), B.A., East Texas State University; M.A., University of Oklahoma; Ph.D., Louisiana State University. *Professor of Communication.*

Herzbrun, Helen McK. (1959), B.A., University of Chicago. *Professor of Art.*

Hillyer, Raphael (1970), B.A., Dartmouth College; M.A., Harvard University. *Professor of Music.*

Hirano, Marjorie (1967), B.E., University of Hawaii; M.S., Illinois Institute of Technology.

Associate Professor of Art.

Hodinko, Bernard A. (1967), B.S., California State College; M.A., University of West Virginia; Ed.D., Pennsylvania State University. *Professor of Education.*

Hofmeister, Heimo E. M. (1968), Ph.D., University of Vienna. *Associate Professor of Philosophy.*

Hoggard, Gary D. (1971), B.A., California State College; M.A., University of Southern California. *Instructor in International Service.*

Holliday, Frances (1959), B.S., Northwest Missouri State University; M.A., University of Missouri; Ed.D., The George Washington University. *Professor Emeritus of Education.*

Holzager, Richard (1970), B.A., Columbia University; M.A., Ph.D., Harvard University. *Associate Professor of Mathematics and Statistics.*

Hood, Mary Ann (1957), B.A., M.A., Michigan State University; M.A., The American University. *Associate Professor and Associate Director, English Language Institute.*

Horowitz, Lenore W. (1973), A.B., Pembroke College; Ph.D., Cornell University. *Assistant Professor of Literature.*

Hubbell, Josephine W. (1962), B.S., College of William and Mary; M.A., State University of Iowa; Ph.D., New York University. *Associate Professor of Education.*

Huber, Franz E. (1970), B.A., M.A., Ph.D., University of Michigan. *Associate Professor of Education.*

Huberman, Gisela B. (1971), B.A., M.A., Ph.D., The George Washington University. *Assistant Professor of Spanish and Latin American Studies.*

Hume, Gary W. (1968), B.A., Ph.D., University of Minnesota. *Assistant Professor of Anthropology.*

Hunsberger, Warren S. (1966), A.B., Yale College; Ph.D., Yale University. *Professor of Economics and International Service.*

I

Iden, George R. (1972), B.A., Ohio Wesleyan University; M.A., Ph.D., Harvard University. *Associate Professor of Economics.*

Irish, Marian D. (1966), A.B., Barnard College; M.A., Bryn Mawr College; Ph.D., Yale University. *Charles O. Lerche Professor of International Relations.*

Irwin, Laura (1973), B.A., Oberlin College; Ph.D., University of North Carolina. *Assistant Professor of Government and Public Administration.*

J

Jacobs, Walter W. (1969), B.A., City University of New York; M.A., Ph.D., The George Wash-

ington University. *Professor of Mathematics and Statistics.*

Jacoby, Phillip F. (1972), A.B., Boston College; M.S., Northeastern University; C.P.A. *Instructor, Business Administration.*

Johnson, Jimmy D. (1970), B.B.A., Marshall University; M.S., Northern Illinois University; Ph.D., The American University. *Associate Professor, Business Administration; Program Director, Business-Government Relations and Center for the Study of Private Enterprise; Program Director, Business Law.*

Joughin, Jean T. (1959), A.B., A.M., Ph.D., University of Texas. *Professor of History.*

K

Kaplan, Barbara H. (1968), B.A., Melbourne University. *Assistant Professor of Sociology.*

Karadibil, Laura L. (1958), B.S., M.B.A., Ph.D., The American University; C.P.A. *Professor of Accounting, Business Administration; Director, Accounting Program.*

Karch, Robert C. (1969), B.S., University of Maryland; M.Ed., The American University. *Assistant Professor of Physical Education.*

Kay, Richard B. (1967), B.S., Drury College; M.S., Ph.D., University of Arkansas. *Associate Professor of Physics.*

Keck, Andrew S. (1946), B.A., Williams College; M.A., M.F.A., Princeton University. *University Professor Emeritus of Art History.*

Keidel, Gladys C. (1973), B.S.N., Keuka College; M.S.N., The Catholic University of America. *Instructor in Psychiatric Mental Health Nursing.*

Kelly, Faye L. (1962), B.A., M.A., Ph.D., University of Florida. *Professor of Literature.*

Kennevan, Walter J. (1969), B.C.S., M.C.S., M.F.A., The Catholic University of America; C.D.P.; C.D.E. *Associate Professor of Information Science; Director, Management Information Systems.*

Kessler, Edward (1967), B.A., University of Virginia; M.A., Ph.D., State University, Rutgers. *Associate Professor of Literature.*

Kibarian, Markev (1974), B.S., University of Rhode Island; M.B.A., Ph.D., New York University. *Visiting Professor of Marketing.*

Kiefer, Maxine (1970), A.B., University of Missouri; M.A., Ph.D., Radcliffe College. *Assistant Professor of Mathematics and Statistics.*

King, Frances H. (1957), B.A., Western College for Women; M.A., Ohio State University; M.A., Middlebury College. *Associate Professor of Literature.*

Klein, Ira N. (1968), B.S., M.A., Ph.D., Columbia University. *Associate Professor of History.*

Kobayashi, Bertrand Y. (1972), B.A., University of Hawaii; M.A., Ph.D., Michigan State University. *Assistant Professor of Government*

and Public Administration.

Koehler, David H. (1970), B.S., University of Wisconsin; Ph.D., Syracuse University. *Associate Professor of Government and Public Administration.*

Kokus, John Jr. (1971), B.S., University of California at Berkeley; M.S., San Jose State; Ph.D., The American University. *Associate Professor of Real Estate, Business Administration.*

Korb, Roslyn A. (1973), B.S., University of Massachusetts; M.A., Florida State University. *Assistant Professor of Education.*

Korin, Basil P. (1961), B.A., University of Connecticut; M.S., Stanford University; Ph.D., The George Washington University. *Professor of Mathematics and Statistics.*

Krausz, Michael (1973), B.A., State University, Rutgers; M.A., Indiana University; Ph.D., University of Toronto. *Visiting Assistant Professor of Philosophy.*

Kummer, Laura B. (1967), B.S.N.E., University of Pittsburgh; M.S., Case Western Reserve University; Ed.D., Indiana University. *Professor of Nursing; Dean, Lucy Webb Hayes School of Nursing.*

Kusterer, Ken (1973), B.A., Yale University; M.A., Ph.D., Washington University. *Instructor in Sociology.*

L

Lackman, Conway L. (1970), B.A., Ohio Wesleyan University; M.A., Arizona State University; Ph.D., University of Cincinnati. *Assistant Professor of Managerial Economics, Business Administration.*

Landers, Thomas J. (1970), B.A., Ouchita University; B.D., Southwestern Baptist Theological Seminary; M.A., Ph.D., East Texas State University. *Professor of Education.*

Landman, Ruth H. (1965), B.A., Vassar College; M.A., Ph.D., Yale University. *Associate Professor of Anthropology.*

Landon, Kenneth P. (1965), B.A., Wheaton College; Th.B., Princeton University; M.A., Ph.D., University of Chicago. *Professor of Southeast Asian Studies.*

Lane, Ruth A. (1967), B.S., Simmons College; Ph.D., Georgetown University. *Associate Professor of Government and Public Administration.*

Larson, Charles R. (1965), B.A., M.A., University of Colorado; Ph.D., Indiana University. *Associate Professor of Literature.*

Leap, William L. (1970), B.A., Florida State University; Ph.D., Southern Methodist University. *Assistant Professor of Anthropology.*

Leedy, Paul D. (1961), A.B., Dickinson College; M.A., University of Pennsylvania; Ph.D., New York University. *Professor of Education.*

Lehman, Edward R. (1969), B.S., State University of New York; M.B.A., Ph.D., New York University. *Professor of Finance, Business Administration; Director, Finance Program.*

Leidecker, Henning W. (1968), B.A., M.S., Ph.D., The Catholic University of America. *Assistant Professor of Physics.*

Leventhal, Allan M. (1968), B.A., Lafayette College; M.A., Kent State University; Ph.D., State University of Iowa. *Professor of Psychology.*

Lichtman, Allen J. (1973), B.A., Brandeis University; Ph.D., Harvard University. *Assistant Professor of History.*

Lieber, Harvey (1969), B.A., Yeshiva University; M.P.A., Syracuse University; Ph.D., Columbia University. *Associate Professor of Government and Public Administration.*

Lincoln, Alan J. (1973), B.S., Michigan State University; M.S., M.A., Ph.D., University of Massachusetts. *Assistant Professor of Sociology.*

Lindsay, Michael (Lord Lindsay of Birker) (1959), B.A., M.A., Oxford University. *Professor of International Service.*

Lindt, Gillian (1967), B.S., University of London; M.A., Ph.D., Columbia University. *Professor of Sociology.*

Long, Nicholas J. (1968), B.A., Wayne State University; M.A., Ph.D., University of Michigan. *Professor of Education.*

Lorimer, Frank (1938), B.A., Yale College; B.D., Union Theological Seminary; M.A., University of Chicago; Ph.D., Columbia University. *Professor Emeritus of Sociology.*

Love, Robert E. (1973), B.A., Oberlin College; M.A., Ph.D., Ohio State University. *Assistant Professor of Psychology.*

Lubrano, Linda (1968), B.A., Hunter College; M.A., Ph.D., Indiana University. *Associate Professor of International Relations and Soviet Studies, International Service.*

Lustig, Arnost (1973), M.A., "Ing.", University of Prague. *Visiting Professor of Literature.*

Lyle, Jerolyn R. (1971), B.A., Southern Methodist University; M.A., Ph.D., University of Maryland. *Assistant Professor of Economics.*

M

Machlin, Claire T. (1966), B.A., Hunter College; M.A., The George Washington University. *Assistant Professor of Mathematics and Statistics.*

Macon, Nathaniel (1967), B.A., M.A., Ph.D., University of North Carolina. *Professor of Mathematics.*

Malcolm, Janet M. (1970), B.S., Douglass College; M.S., Northwestern University; Ph.D., Columbia University; C.D.P., C.D.E. *Assistant Professor; Program Director for Operations Research.*

- Malloy, James A. Jr.** (1971), B.A., Morris Harvey College; M.A., Ph.D., Ohio State University. *Assistant Professor of History.*
- Mancill, Grace S.** (1960), B.A., Cornell University; M.A., The American University; Ph.D., Georgetown University. *Associate Professor of Linguistics.*
- Mandel, Alan R.** (1966), B.S., M.S., Julliard School of Music; Diploma, Akademie Mozarteum, Salzburg; Diploma, Conservatorio Monteverdi, Bolzano, Italy. *Associate Professor of Music.*
- Mann, Fritz Karl** (1936), Dr.Jur., Goettingen; Ph.D., Berlin. *Professor Emeritus of Economics.*
- Marks, Barry A.** (1968), B.A., Dartmouth College; M.A., Ph.D., University of Minnesota. *Professor of Literature.*
- Martin, Albro** (1970), B.A., The George Washington University; M.A., Harvard University; Ph.D., Columbia University. *Assistant Professor of History.*
- Martyn, Howe** (1961), B.A., University of Toronto; M.A., Oxford University. *Professor of International Business, Business Administration; Director, International Business Program.*
- Mason, Vito E.** (1966), B.S., New York University; M.S., Ithaca College. *Associate Professor of Music.*
- Mather, David P.** (1970), B.S., St. Procopius College; M.S., Miami University; Ph.D., University of Wisconsin. *Assistant Professor of Mathematics and Statistics.*
- McCarthy, Barry W.** (1969), B.A., Loyola University; M.A., Ph.D., Southern Illinois University. *Assistant Professor of Psychology.*
- McCue, Edmund B.** (1964), A.B., Union College; M.S., University of Michigan; Ph.D., Carnegie Institute of Technology. *Associate Professor of Mathematics and Statistics.*
- McCurdy, Howard E.** (1968), B.A., M.A., University of Washington; Ph.D., Cornell University. *Associate Professor of Government and Public Administration.*
- McDowell, Robert H.** (1972), A.B.M.E., University of North Carolina at Chapel Hill; M.M.E., University of North Carolina at Greensboro. *Instructor in Music.*
- McFeeter, Ruth E.** (1955), B.S., Beaver College; M.A., Columbia University. *Associate Professor of Physical Education; Associate Dean of the College of Arts and Sciences.*
- McGinnies, Elliott** (1971), B.A., University of Buffalo; M.A., Brown University; Ph.D., Harvard University. *Professor of Psychology.*
- McGuckian, George** (1974), B.S., University of Maryland; M.S., The American University. *Lecturer in Computer Systems Applications.*
- McLain, James L.** (1934), B.A., The George Washington University; Certificate, Peabody Conservatory of Music. *Professor Emeritus of Music.*
- McLaughlin, Charles C.** (1963), B.A., Yale University; M.A., Ph.D., Harvard University. *Associate Professor of History.*
- McNett, Charles W. Jr.** (1967), B.A., Ph.D., Tulane University. *Professor of Anthropology.*
- Meadows, Martin** (1961), B.A., M.A., Ph.D., University of Oregon; Ph.D., University of Maryland. *Professor of Government and Public Administration.*
- Medish, Vadim** (1963), B.A., University of Pennsylvania; M.A., Ph.D., The American University. *Professor of Language and Russian Studies.*
- Mehrlert, Peter** (1972), B.S., Boston University. *Instructor in Physical Education.*
- Messersmith, Craig** (1969), B.A., Hobart College; M.Ed., D.Ed., Pennsylvania State University. *Associate Professor of Education.*
- Miller, Dennis D.** (1962), B.S., Goshen College; M.Ed., Kent State University; Ed.D., The American University. *Associate Professor of Education.*
- Mishan, Edward** (1970), B.A., Manchester University; M.S., University of London; Ph.D., University of Chicago. *Professor of Economics.*
- Mittlebeeler, Emmet V.** (1954), B.A., LL.B., University of Louisville; M.A., Ph.D., University of Chicago. *Professor of Government and Public Administration.*
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- Moore, Harvey C.** (1951), B.A., University of Delaware; Ph.D., University of New Mexico. *Professor of Anthropology; Acting Dean, College of Arts and Sciences.*
- Morris, Cynthia T.** (1967), B.A., Vassar College; M.Sc., London School of Economics; Ph.D., Yale University. *Professor of Economics.*
- Morris, David B.** (1972), B.A., Hamilton College; Ph.D., University of Minnesota. *Associate Professor of Literature.*
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- Mott, Albert D.** (1958), B.A., M.A., University of Missouri; Ph.D., University of California at Berkeley. *Professor of West European Studies.*
- Motz, Annabelle B.** (1966), B.S., University of Wisconsin; M.A., Ph.D., University of Chicago. *Professor of Sociology.*
- Mowlana, Hamid** (1968), B.A., M.A., Ph.D., Northwestern University. *Professor of International Communication and International Service.*
- Moyer, Kermit W.** (1970), B.A., M.A., Ph.D., Northwestern University. *Assistant Professor of Literature.*
- Mueller, Hugo J.** (1959), Ph.D., University of

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Müller, Gert H. (1973), Ph.D., University of Munich. *Associate Professor of Sociology*.
Müller, Ronald E. (1970), M.A., University of Munich; Ph.D., The American University. *Assistant Professor of Economics*.
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N

Nash, Philleo (1971), A.B., University of Wisconsin; Ph.D., University of Chicago. *Professor of Anthropology*.
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Noel, Henry M. (1963), M.A., University of Pennsylvania; Dr.d'Univ., Université de Montpellier. *Associate Professor Emeritus of French Studies*.
Norton, Bruce F. (1966), B.A., State University of New York; M.A., The George Washington University; Ph.D., Syracuse University. *Associate Professor of Government and Public Administration*.
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O

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Olds, Ruberta M. (1930), Ph.B., University of Chicago; M.A., Columbia University. *Professor Emeritus of Languages*.
Onuf, Nicholas G. (1970), B.A. Johns Hopkins University; M.A., Yale University; Ph.D., Johns Hopkins University. *Associate Professor of International Relations, International Service*.
Orwant, Jack E. (1970), B.A., M.A., University of Michigan; Ph.D., University of Iowa. *Assistant Professor of Communication*.
Osborne, Milton E. (1972), B.A., University of Sydney; Ph.D., Cornell University. *Associate Professor of History and International Service*.
Ottaway, Marina S. (1973), B.A., New York University. *Instructor in Sociology*.
Owens, James (1961), B.A., Loyola University; M.A., University of Chicago; Ph.D., George-

town University. *Professor of Business Administration*.

P

Patrick, P. Howard (1973), B.Mus., University College, South Wales, U.K.; Ph.D., Princeton University. *Assistant Professor of Music*.
Patton, Mary M. (1943), B.A., Kalamazoo College; M.A., Columbia University. *Professor Emeritus of Literature*.
Penay, Luciano J. (1965), B.A., M.A., The American University. *Associate Professor of Art*.
Pferlmutter, Amos (1972), B.A., M.A., Ph.D., University of California at Berkeley. *Professor of Government and Public Administration*.
Peterson, David J. (1971), B.S., M.A., University of Alabama; Ph.D., Michigan State University. *Associate Professor of Government and Public Administration*.
Peterson, Karen K. (1970), B.A., University of California at Berkeley; M.A., The Johns Hopkins University; Ph.D., Columbia University. *Associate Professor of Sociology*.
Peterson, Russell L. (1970), B.S., University of North Carolina at Chapel Hill; M.S., Howard University. *Instructor in Biology*.
Pfrommer, Marian F. (1973), B.A., Syracuse University; M.S., Columbia University. *Assistant Professor of Communication*.
Photias, Nikos G. (1949), B.A., Athens University; M.B.A., Handelshochschule, Koenigsberg; M.Sc.Pol., Ph.D., Albertus University, Koenigsberg; LL.D., Friedrich Wilhelm University, Berlin. *Professor Emeritus, Business Administration*.
Pierce, Edward R. (1970), B.A., Ph.D., University of Louisville; M.P.H., The Johns Hopkins University. *Associate Professor of Biology*.
Pineda, Hugo (1959), B.A., The George Washington University; M.A., The American University; Ph.M., Ph.D., The George Washington University. *Associate Professor of Spanish and Latin American Studies*.
Piotrow, F. Jackson (1962), B.A., Haverford College; B.A., M.A., D.Phil., Oxford University. *Professor of International Relations and Soviet Studies, International Service*.
Polisky, Jerome B. (1961), B.S., M.S., Ph.D., University of Wisconsin. *Associate Professor of Communication*.
Posner, Ernst (1939), Ph.D., University of Berlin. *Professor Emeritus of History*.
Potter, Pitman B. (1944), B.A., M.A., Ph.D., Harvard University. *Professor Emeritus of International Service*.
Powell, Ralph L. (1960), B.A., University of California, Berkeley; Certificate, California College in China; Ph.D., Harvard University. *Professor of International Relations and East Asian Studies, International Service*.

Preston, Nathaniel S. (1961), A.B., Boston University; M.A., University of Pennsylvania; Ph.D., Princeton University. *Professor of Government and Public Administration; Vice President for Academic Affairs.*

Prevots, Naima W. (1967), B.A., Brooklyn College; M.S., University of Wisconsin. *Associate Professor of Dance.*

R

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Randall, Harold M. (1959), B.A., Parsons College; M.A., Ph.D., Georgetown University. *Professor Emeritus of Latin American Studies, International Service.*

Randall, Mildred (1966), B.S., M.S., Case Western Reserve University. *Associate Professor of Nursing/Nutrition.*

Ravenal, Carol (1970), B.A., Brooklyn College; M.F.A., Ohio University; Ph.D., Harvard University; R.I.S.D., Brown University. *Associate Professor of Art.*

Reddick, Bryan D. (1971), B.A., University of Iowa; M.A., Syracuse University; Ph.D., University of California at Davis. *Assistant Professor of Literature.*

Reiman, Jeffrey (1970), B.A., Queens College; M.A., Ph.D., Pennsylvania State University. *Associate Professor of Administration of Justice.*

Reimann, Barbara J. (1967), B.S., Temple University; M.A., University of Maryland. *Associate Professor of Physical Education.*

Reiss, Howard R. (1969), B.Ae.E., M.Ae.E., Polytechnic Institute of Brooklyn; Ph.D., University of Maryland. *Professor of Physics.*

Rice, Frederick A. H. (1963), B.A., M.S., Dalhousie University; Ph.D., Ohio State University. *Professor of Chemistry.*

Rioch, Margaret (1970), B.A., Wellesley College; M.A., Washington University; Ph.D., Bryn Mawr College. *Professor of Psychology.*

Roberts, Jeanne A. (1960), B.A., Agnes Scott College; M.A., University of Pennsylvania; Ph.D., University of Virginia. *Professor of Literature.*

Robinson, Edgar S. (1953), B.A., Amherst College; M.A., Ph.D., Columbia University. *Professor of Government and Public Administration.*

Robinson, John D. II (1972), B.A., M.A., University of Texas; CAGS, Ed.D., University of Massachusetts. *Assistant Professor of Education.*

Robinson, Myles E. (1966), B.A., M.A., Ohio State University; Ph.D., Northwestern University. *Professor of Marketing and Transportation, Business Administration; Director, Marketing, Transportation, and Logistics Program.*

Rodier, David F. T. (1967), B.A., Drury College; Ph.D., Vanderbilt University. *Associate Professor of Philosophy.*

Rogers, Joseph R. III (1965), B.S., University of Massachusetts. *Assistant Professor of Physical Education.*

Rosche, Theodore R. (1960), B.A., Park College; B.D., Union Theological Seminary; Ph.D., Columbia University. *Professor of Religion.*

Rosenberg, Florence R. (1972), B.A., Brooklyn College; M.A., Stanford University; Ph.D., University of Maryland. *Assistant Professor of Sociology.*

Rosenberg, Marvin I. (1964), B.S., U.S. Naval Academy; B.S., U.S. Naval Postgraduate School; M.S., Purdue University. *Associate Professor of Computer Systems Applications.*

Rosenthal, Harry (1955), B.S., M.B.A., American University; C.P.A. *Associate Professor of Accounting, Business Administration.*

Ross, Bernard H. (1967), B.S., University of Pennsylvania; M.A., Ph.D., New York University. *Associate Professor of Government and Public Administration.*

Rossotti, Jack (1974), B.A., Northwestern M.A., Ph.D., Syracuse University. *Assistant Professor of Government and Public Administration.*

Roth, Harold H. (1946), B.A., College of the City of New York; M.A., Columbia University; M.A., Ph.D., J.D., The American University. *Professor of Government and Public Administration.*

Rubenstein, Roberta (1969), B.A., University of Colorado; Ph.D., University of London. *Assistant Professor of Literature.*

Russo, Nancy F. (1969), B.A., University of California at Davis; Ph.D., Cornell University. *Assistant Professor of Psychology.*

S

Saari, David (1971), B.A., J.D., University of Minnesota. *Associate Professor of Administration of Justice and Judicial Administration; Director, Center for the Administration of Justice.*

Sachs, Reynolds M. (1970), B.A., Oberlin College; M.A., Northwestern University; Ph.D., Columbia University. *Professor of Managerial Economics, Business Administration.*

Sadker, David (1973), B.A., College of the City of New York; M.A.T., Harvard University; Ed.D., University of Massachusetts. *Assistant Professor of Education.*

Sadker, Myra (1973), B.A., Boston University;

- M.A.T., Harvard University; Ed.D., University of Massachusetts. *Assistant Professor of Education.*
- Sager, Martha C.** (1955), B.S., M.S., University of Maryland; Ph.D., The Catholic University of America. *Professor; Program Director, Environmental Systems Management.*
- Said, Abdul Aziz** (1957), B.S.S.S., M.A., Ph.D., The American University. *Professor of International Relations and Middle Eastern Studies, International Service.*
- Salazar, Oscar** (1963), B.A., Columbia Union College; M.A., The George Washington University. *Assistant Professor of Spanish and Latin American Studies.*
- Sandifer, Durward V.** (1960), B.A., Eureka College; M.S., LL.B., Ph.D., Columbia University. *Professor Emeritus, International Service.*
- Sands, Judith K.** (1973), B.S.N., Syracuse University; M.S.N., University of Colorado. *Instructor in Medical/Surgical Nursing.*
- Sansbury, David L.** (1969), B.A., M.A., Ph.D., Ohio State University. *Associate Professor of Education.*
- Sawers, Larry B.** (1969), B.A., Duke University; M.A., Ph.D., University of Michigan. *Assistant Professor of Economics.*
- Schot, Steven H.** (1957), B.S., The American University; M.A., Ph.D., University of Maryland. *Professor of Mathematics and Statistics.*
- Schubert, Leo** (1951), B.S., College of the City of New York; M.S., New York University; Ph.D., University of Maryland. *Professor of Chemistry.*
- Schuetze, George C. Jr.** (1963), B.M., University of Wisconsin; Ph.D., New York University. *Associate Professor of Music.*
- Schwartz, Elliot** (1973), B.S., University of Illinois. *Instructor in Economics.*
- Scott, John C. Jr.** (1957), B.S., Springfield College; M.A., Ph.D., University of Chicago. *Professor of Sociology.*
- Scribner, Phillip H.** (1970), B.A., University of Colorado; Ph.D., The Johns Hopkins University. *Assistant Professor of Philosophy.*
- Segal, Morley** (1967), A.B., M.A., San Francisco State University; Ph.D., Claremont Graduate School. *Professor of Government and Public Administration.*
- Segnan, Romeo** (1967), B.S., M.S., University of Turin; Ph.D., Carnegie Institute of Technology. *Associate Professor of Physics.*
- Seigle, Jack C.** (1963), B.A., University of Michigan; M.A., University of Montana. *Associate Professor of Public Relations; Director, Public Relations Program.*
- Seldin, Maurice** (1965), B.S., M.B.A., University of California, Los Angeles; D.B.A., Indiana University. *Professor of Real Estate, Business Administration; Director, Real Estate and Urban Development Planning Program.*
- Shaffer, Robert B.** (1969), B.A., Oberlin College; M.A., Ph.D., Harvard University. *Associate Professor of Art.*
- Sharf, James C.** (1970), B.S., Dickinson College; M.S., Ph.D., University of Tennessee. *Assistant Professor of Industrial Relations, Business Administration.*
- Sharp, Samuel L.** (1951), LL.M., J.D., Warsaw University. *Professor, International Service.*
- Silberberg, Alan** (1971), B.A., Yale University; M.A., Ph.D., University of Pennsylvania. *Assistant Professor of Psychology.*
- Simon, Richard** (1970), B.B.A., Western Reserve University; M.A., University of Pittsburgh. *Instructor in Economics.*
- Simonds, Roger T.** (1958), B.A., M.A., Ph.D., Yale University. *Professor of Philosophy.*
- Sitterly, Bancroft W.** (1947), B.A., M.A., Ph.D., Princeton University. *Professor Emeritus of Physics.*
- Smith, Gordon H.** (1947), B.M., B.S.M., Wooster College; M.A., Mills College; Ph.D., University of Iowa. *Professor of Music.*
- Smith, John A.** (1968), B.A., Vanderbilt University; B.D., Drew University; M.A., Ph.D., The Johns Hopkins University. *Assistant Professor of Education.*
- Smith, John H.** (1947), B.A., Iowa State Teachers College; M.B.A., Ph.D., University of Chicago. *Professor of Mathematics and Statistics.*
- Smolka, Richard G.** (1962), B.A., M.A., Ph.D., The American University. *Professor of Government and Public Administration.*
- Stahr, William E.** (1963), B.A., M.A., University of Maryland; Ph.D., The George Washington University. *Assistant Professor of Literature.*
- Steinbruckner, Bruno F.** (1965), Ph.D., University of Innsbruck, Austria. *Professor of Language and German Studies.*
- Strain, Lucille B.** (1972), B.A., Benedict College; M.Ed., Ph.D., Ohio State University. *Associate Professor of Education.*
- Strautz, Robert L.** (1965), B.S., The American University; Ph.D., University of Maryland; M.D., Howard University. *Associate Professor of Biology.*
- Struelens, Michel** (1968), Humanites Greco-Latines, College St. Pierre, Belgium; Lic.Sc. Commerciales et Consulaires, Universite St. Ignace, Belgium; Ph.D., The American University. *Assistant Professor of Languages and French Studies; Director, CERDEC.*
- Suhrke, Astri** (1972), M.A., Ph.D., University of Denver. *Assistant Professor of International Relations and Southeast Asian Studies, International Service.*
- Summerford, Ben L.** (1950), B.A., M.A., The American University; Ecole des Beaux-Arts, Paris. *Professor of Art.*
- Sunley, Judith S.** (1971), B.S., M.S., University of Michigan; Ph.D., University of Maryland. *Assistant Professor of Mathematics and Statistics.*
- Supervia, Rafael** (1971), B.A., Institute of

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Sutton, Ronald E. (1973), B.A., Swarthmore College; M.Div., S.T.M., Drew University. *Assistant Professor of Communication.*

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T

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Tanzi, Vito (1967), B.A., M.A., The George Washington University; M.A., Ph.D., Harvard University. *Professor of Economics.*

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Taylor, Henry S. (1971), B.A., University of Virginia; M.A., Hollins College. *Associate Professor of Literature.*

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Torrence, Lois E. (1953), B.A., Kansas Wesleyan University; M.A., Southern Methodist University; Ph.D., The American University. *Professor of Government and Public Administration; Director, Office of Institutional Studies.*

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Turaj, Frank (1965), B.A., M.A., University of Connecticut; Ph.D., Brown University. *Associate Professor of Literature.*

Turak, Theodore (1966), B.A., M.A., Western Reserve University; Ph.D., University of Michigan. *Associate Professor of Art.*

Tyson, Brady B. (1967), B.A., Rice University; B.D., Southern Methodist University; Ph.D., The American University. *Associate Professor of Latin American Studies, International Service.*

U

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V

Van Atta, Richard H. (1971), B.A., University of California, Santa Barbara; Ph.D., Indiana University. *Assistant Professor of International Relations, International Service.*

Van der Slice, Austin (1946), B.A., M.A., University of Kansas; Ph.D., University of Pennsylvania. *Professor Emeritus of Sociology.*

Van Way, Charles W. Jr. (1955), B.S., U.S. Military Academy; M.B.A., The American University. *Associate Professor Emeritus of Education.*

Viano, Emilio (1970), M.A., Gregoriana University; Ph.D., Alfonsianum, Rome; M.A., University of Notre Dame; Ph.D., New York University. *Associate Professor of Administration of Justice.*

Vilakazi, Absolom L. (1965), B.A., University of Natal; M.A., Hartford Seminary Foundation; M.A., Trinity College; Ph.D., University of Natal. *Professor of Anthropology and International Service.*

von Abele, Rudolph (1947), B.A., Ph.D., Columbia University. *Professor of Literature.*

Voss, Herbert R. (1967), B.S., Wisconsin State University; M.A., University of Minnesota. *Associate Professor of Performing Arts.*

Vrenios, Elizabeth A. (1967), B.Mus., University of the Pacific; M.Mus., Northwestern University. *Associate Professor of Music.*

W

Wachtel, Howard M. (1969), B.S., Temple University; M.A., University of Connecticut; Ph.D., University of Michigan. *Associate Professor of Economics.*

Wadsworth, Lawrence W. Jr. (1957), B.S., Centenary College; M.A., Tulane University; Ph.D., The American University. *Grazier Memorial Professor of International Law.*

Walker, Millidge P. (1960), A.B., Williams College; M.A., Ph.D., University of California at Berkeley. *Professor of Southeast Asian Studies, International Service, Government and Public Administration.*

Wallin, Theodore O. (1972), B.A., Thiel College; M.B.A., Columbia University; M.A., Ph.D., Cornell University. *Visiting Associate Professor of Business Administration.*

Waterhouse, Richard V. (1961), B.A., M.A., Magdalen College, Oxford University; Ph.D., The Catholic University of America. *Associate Professor of Physics.*

Waters, Paul F. (1965), B.S., University of Scranton; Ph.D., State University, Rutgers. *Associate Professor of Chemistry.*

Waterston, Albert (1970), B.A., New York Uni-

versity; M.A., Columbia University. *Professor of Economics.*

Watkins, Law B. (1972), B.A., Yale University; M.A., The American University; M.A., University of Wisconsin. *Instructor in Art.*

Weaver, Gary (1967), B.A., M.A., Ph.D., The American University. *Associate Professor, Pride/American University Institute; Acting Director, Pride/American University Institute.*

Weaver, James H. (1963), B.S., B.A., University of Arkansas; Ph.D., University of Oklahoma. *Professor of Economics.*

Weiner, Ronald (1972), B.A., University of Maryland; M.S.W., Howard University. *Assistant Professor of Administration of Justice.*

Weiss, Stanley (1968), B.A., College of the City of New York; M.A., Ph.D., Ohio State University. *Professor of Psychology.*

Weissbrod, Carol S. (1973), B.S., Tufts University; M.A., Ph.D., Northwestern University. *Assistant Professor of Psychology.*

Welt, Isaac D. (1964), B.S., M.S., McGill University; Ph.D., Yale University. *Professor of Information Science; Program Director, Scientific and Technical Information Systems.*

Welty, Gordon (1971), B.A., University of Akron; M.A., University of Pittsburgh. *Instructor in Sociology.*

Wess, Harold B. (1953), B.S., College of the City of New York. *Professor Emeritus, Business Administration.*

Wheaton, Harry J. (1959), B.B.A., University of Washington; M.B.A., The American University. *Professor Emeritus, Business Administration.*

White, Charles S. J. (1971), B.A., University of Wisconsin; M.A., University of the Americas; M.A., Ph.D., University of Chicago. *Associate Professor of Philosophy and Religion; Acting Director, Center for Asian Studies.*

White, John A. (1966), B.A., Oberlin College; M.S., Ph.D., Yale University. *Professor of Physics.*

Whitfield, Ralph (1961), B.A., Atlantic Christian College; M.A., University of North Carolina; Ed.D., University of Maryland. *Professor of Education.*

Whitley, Sterling D. (1966), B.S., Tennessee Technological University; B.D., Vanderbilt University; M.Ed., Ed.D., Auburn University. *Professor of Education.*

Wilber, Charles K. (1964), B.A., M.A., University of Portland; Ph.D., University of Maryland. *Professor of Economics.*

Wilson, Howard (1963), B.E.E., The George Washington University; M.A., University of Maryland. *Assistant Professor of Mathematics and Statistics.*

Wilson, Larman C. (1968), B.A. Nebraska State University; M.A., Ph.D., University of Maryland. *Associate Professor of International Relations and Latin American Studies, International Service.*

Wisman, Jon D. (1971), B.A., University of Maryland; M.A., The American University. *Instructor in Economics.*

Wisman, Josette A. (1973), Licence-en-Lettres, Strasbourg University; M.A., The American University. *Instructor of Languages and Linguistics.*

Wolfson, Lewis W. (1969), B.A., Dartmouth College; M.S., Columbia University; M.A., Harvard University. *Associate Professor of Communication.*

Wood, Glynn L. (1969), B.A., Louisiana State University; M.A., Stanford University; Ph.D., Massachusetts Institute of Technology. *Associate Professor of Government and Public Administration.*

Wyatt, Kathryn D. (1945), B.A., Meredith College; M.A., Middlebury College; Ph.D., The Catholic University of America. *Professor Emeritus of Language and French Studies.*

Wythe, Zoe (1948), Licence, University of Geneva; B.A., M.A., The George Washington University. *Associate Professor Emeritus of Languages and Linguistics.*

Y

Yahr, Harold (1968), B.S., College of the City of New York; M.A., Ph.D., New York University. *Assistant Professor of Sociology.*

Yamauchi, Joanne S. (1970), B.A., Goucher College; M.A., Columbia University; Ph.D., Northwestern University. *Assistant Professor of Communication.*

Yarnall, Shirley E. (1959), B.A., Wilson College. *Associate Professor of Literature.*

Yoshihashi, Takehiko (1959), B.A., University of California, Los Angeles; M.A., Harvard University; Ph.D., Yale University. *Professor of International Relations and East Asian Studies, International Service.*

Young, Louise M. (1958), B.A., Ohio Wesleyan University; M.A., Ph.D., Pennsylvania State University. *Professor Emeritus of English.*

Z

Zangwill, Willard I. (1971), A.B., Columbia University; M.A., Kent State University; Ph.D., Stanford University. *Associate Professor of Operations Research and Management Sciences, Business Administration.*

Zapalka, Francis E. (1958), B.A., Fordham University; M.A., Trinity College; Ph.D., The Catholic University of America. *Assistant Professor of Literature.*

Zauderer, Donald (1970), B.S., Ohio State University; M.A., Kent State University; Ph.D., Indiana University. *Assistant Professor of Government and Public Administration; Director, Public Administration Programs.*

1973-1974 Part-time Faculty

THE FACULTY LIST BELOW COVERS THE 1973-1974 ACADEMIC YEAR ONLY.

A

Abbott, Richard G. (1969), B.S., Trinity College; M.S., Stanford University. *Professorial Lecturer in Computer Systems Applications.*

Abrams, Morris M. (1967) B.S., University of Maryland; LL.B., The American University. *Lecturer in Advanced Business Law, Business Administration.*

Achmed, Altaf (1972), M.A., Punjab University; M.A., The George Washington University. *Lecturer in Statistics.*

Adler, Leon M. (1973), B.S., College of the City of New York; M.A., Ph.D., The George Washington University. *Adjunct Professor of Jewish Studies.*

Ainsworth, Barbara (1973), B.A., M.Ed., University of Maryland. *Lecturer in Education.*

Aldred, William M. (1966), B.A., University of North Carolina; M.S., Texas A&M University. *Adjunct Professor of Computer Systems Applications.*

Archibald, Samuel G. (1968), B.A., Columbia University. *Adjunct Professor of Public Relations.*

Arser, William Earl (1973), *Lecturer in Music (French Horn).*

Auberger, Kenneth J. (1973), B.B.A., Siena College; M.B.A., J.D., The American University. *Lecturer in Managerial Accounting, Business Administration.*

Aurbach, Laurence J. (1973), A.B., Princeton University; LL.B., University of California School of Law. *Lecturer in Environmental Systems Management.*

B

Baker, David (1972), A.B., St. Martins College; B.S., M.S., University of British Columbia. *Professorial Lecturer in Corrections.*

Balderston, C. Canby (1966), B.S., M.A., Ph.D., University of Pennsylvania. *Adjunct Professor of Finance, Business Administration.*

Banes, Daniel (1952), B.S., M.S., University of Chicago; Ph.D., Georgetown University. *Adjunct Professor of Chemistry.*

Baratz, Bernard (1972), B.Ch.E., Cooper Union; M.S., Rice University; M.A., Ph.D., Princeton University. *Professorial Lecturer in Environmental Systems Management.*

Barish, Nathaniel H. (1968), B.A., M.A., University of California; M.A., Columbia University; Ph.D., The American University. *Professorial Lecturer in Research and Development Management.*

Barone, Charles A. (1973), B.A., The American University. *Lecturer in Economics.*

Bartet, France Marie Helene (1973), B.S., Georgetown University. *Lecturer in Languages (French).*

Basa, Eniko Molnar (1972), B.A., Trinity College; M.A., Ph.D.; University of North Carolina at Chapel Hill. *Professorial Lecturer in Literature.*

Bateman, David V. (1970), B.A., University of Buffalo; M.A., University of Nebraska. *Lecturer in Mathematics.*

Bear, Catherine R. (1972), B.A., Tulane University; M.S., The American University. *Lecturer in Public Relations.*

Beatty, Douglas N. (1968), B.S.E., M.S.E., Princeton University. *Professorial Lecturer in Management Information Systems.*

Beck, Thomas Earl (1973), B.A., M.F.A., University of Maryland. *Professorial Lecturer in Art.*

Behrens, Kurt C. (1974), B.S.B.A., M.B.A., Northwestern University. *Professorial Lecturer in Managerial Accounting.*

Belaunde-Terry, Fernando (1971), B.Arch., University of Texas; Diploma, Instituto de Urbanismo; Doctor Honoris Causa, Universidad Nacional Agraria, Peru. *Adjunct Professor of Spanish and Latin American Studies.*

Bellino, Thomas J. (1973), A.B., Marquette University; M.A., Ph.D., Catholic University of America. *Professorial Lecturer in Psychology.*

Bennett, Lawrence (1972), B.A., The American University; J.D., Washington College of Law. *Professorial Lecturer in the Administration of Justice.*

Bennett, Linda (1974), B.A., Clarion State College; M.A., Indiana University. *Lecturer in Anthropology.*

Bennett, Willis (1967), *Lecturer in Music (Piano).*

Benoit, John W. (1972), B.S., University of Washington; M.S., North Carolina State College; Ph.D., Princeton University. *Professorial Lecturer in Computer Systems Applications.*

Berkman, David (1970), B.A., Long Island University; M.S., Syracuse University; Ed.D., New York University. *Adjunct Professor of Communication.*

Bernstein, Charles (1973), A.B., Western Maryland College; J.D., University of Maryland Law School. *Professorial Lecturer in the Administration of Justice.*

Bierman, Martin (1972), A.B., University of Michigan; J.D., Wayne State University. *Adjunct Professor of Judicial Administration.*

Biles, George E. (1973), B.S., U.S. Naval Academy; A.M., The George Washington University; Ph.D., Ohio State University. *Lecturer in Behavior of Complex Organization, Business Administration.*

Binder, Jay L. (1968), B.S., M.B.A., The American University. *Lecturer in Organizational Behavior, Business Administration.*

Binkin, Martin (1965), B.S., B.A., Washington University; M.B.A., University of Michigan. *Professorial Lecturer in Operations Research.*

Blumberg, Charles E. (1969), Certificate, Parsons School of Design; B.S., New York University. *Professorial Lecturer in Art.*

Boesel, Andrew (1972), B.A., Beloit College; M.G.A., University of Pennsylvania. *Adjunct Professor of Government and Public Administration.*

Bolce, William J. (1970), A.B., University of California, Berkeley; M.B.A., Rollins College. *Professorial Lecturer in Business Administration.*

Boothman, Donald (1970), A.B., Oberlin College. *Lecturer in Music (Voice).*

Boren, Mary Carol (1973), B.S., Davidson University; M.S., Ph.D., University of Maryland. *Professorial Lecturer in Psychology.*

Bornstein, Andrew P. (1972), *Lecturer in Communication.*

Bosak, Vincent (1972), B.S., University of Scranton; M.A., The American University. *Lecturer in Management Information Systems.*

Boul, Jack (1969), Certificate, Cornish School of Art, Seattle, Washington. *Professorial Lecturer in Art.*

Bowe, Lawrence (1970), LL.B., School of Law, St. John's University. *Professorial Lecturer in the Administration of Justice.*

Braithwaite, Timothy B. (1971), B.S.B.A., Rockhurst College; M.P.A., The American University. *Lecturer in Management Information Systems.*

Brennan, Joseph P. (1967), A.B., University of Notre Dame; M.B.A., The American University. *Professorial Lecturer in Marketing, Business Administration.*

Brogan, Raymond F. (1965), B.S., St. Joseph's College; M.A., The George Washington University. *Professorial Lecturer in Management Information Systems.*

Brown, Barry (1970), A.B., Brooklyn College; Ph.D., Western Reserve University. *Adjunct Professor of the Administration of Justice.*

Brown, Donald E. (1973), B.S., Syracuse University; M.C.S., Texas A&M University. *Lecturer in Computer Systems Applications.*

Brown, Donald P. (1974), B.S., Oklahoma State University; M.S., Ph.D., University of Wisconsin. *Professorial Lecturer in Computer Systems Applications.*

Brown, Llewellyn A. (1974), B.B.A., City University of New York; M.B.A., The George Washington University. *Lecturer in Financial Management, Business Administration.*

Bruck, Nicholas K. (1974), B.B.A., M.B.A., Ph.D., University of Commerce (Vienna); M.A.,

Duke University. *Adjunct Professor of International Finance, Business Administration.*

Bublitz, Robert W. (1968), B.S., M.S., Oklahoma State University. *Professorial Lecturer in Operations Research.*

Buckhorn, Robert F. (1969), *Lecturer in Communication.*

Buckwalter, Omar (1973), A.B., Taylor University; B.D., Union Theological Seminary; Ph.D., Columbia University. *Professorial Lecturer in Philosophy and Religion.*

Buffington, Col. Milton W. (1973), B.A., LL.B., J.D., Ohio State University. *Adjunct Professor of Cybernetics.*

Burnett, Michael (1973), B.A., M.A., University of Missouri. *Lecturer in Economics.*

Burns, James L. (1974), B.A., West Virginia University; M.S., The American University. *Lecturer in Management Information Systems.*

Burns, Robert O. (1967), B.S., Knox College; M.S., Ph.D., University of Illinois. *Professorial Lecturer in Research and Development Management.*

Burns, William J. (1958), Academy of Advanced Traffic; B.S., University of Maryland. *Professorial Lecturer in Transportation Management, Business Administration.*

Burpo, John (1971), A.B., University of Tennessee; J.D., University of Tennessee Law School. *Professorial Lecturer in the Administration of Justice.*

Butler, Edward T. Jr. (1962), B.S., M.S., The American University. *Professorial Lecturer in Earth Sciences.*

C

Cades, Steven (1974), A.B., M.A. State University, Rutgers. *Professorial Lecturer in Sociology.*

Calfie, William (1944), *Adjunct Professor of Art.*

Calkins, Howard (1973), B.F.A., M.A., College of William and Mary. *Lecturer in Corrections.*

Cameron, J. L. (1970), M.B., Ch.B., Glasgow University, Scotland; D.P.M., Royal College of Physicians, Royal College of Surgeons of Ireland. *Adjunct Professor of Psychology.*

Carlson, Patricia A. (1973), A.B., College of William and Mary; M.A., Ph.D., Duke University. *Professorial Lecturer in Literature.*

Carlson, William E. (1972), B.S., M.S., Massachusetts Institute of Technology. *Lecturer in Computer Systems Applications.*

Carroll, Janet S. (1970), B.A., The George Washington University; M.A., Georgetown University. *Lecturer in Literature.*

Carson, John H. (1973), B.S., M.S., Lehigh University. *Lecturer in Scientific and Technical Information Systems.*

Carter, John S. H. (1974), B.A., Bowdoin Col-

- lege; M.A., University of Vermont; Ph.D., The American University. *Professorial Lecturer in Management, Business Administration.*
- Cassidy, Jeanne T.** (1970), B.S., Columbia University; M.A., Sarah Lawrence College. *Lecturer in Literature.*
- Catravas, George** (1967), D.Ch., University of Athens, Greece; Ph.D., University of Leeds, England; D.Sc., University of Paris (Sorbonne). *Adjunct Professor of Biology.*
- Certner, Barry** (1973), B.A., Adelphi University; M.A., Ph.D., University of Cincinnati. *Professorial Lecturer in Government and Public Administration.*
- Cetron, Marvin J.** (1972), B.S., Pennsylvania State University; M.S., Columbia University; Ph.D., The American University. *Adjunct Professor of Research and Development Management.*
- Chalifaux, Jeanne** (1963), Diploma, Curtis Institute of Music. *Lecturer in Music (Harp).*
- Chambliss, John C.** (1971), B.S., U.S. Naval Academy; B.S.E.E., U.S. Naval Postgraduate School; M.S.E., University of Michigan. *Lecturer in Computer Systems Applications.*
- Ciervo, Arthur V.** (1971), B.S., West Virginia University; M.A., The American University. *Professorial Lecturer in Public Relations.*
- Clarke, John** (1950), B.S., M.A., Ph.D., The American University. *Adjunct Professor of Government and Public Administration.*
- Clarkson, Don** (1970), B.A., M.S.W., Howard University. *Adjunct Professor of the Administration of the Administration of Justice.*
- Cofer, Williston** (1973), B.A., Western New Mexico University; M.S., The American University. *Lecturer in Management Information Systems.*
- Cohan, Carol F.** (1972), B.A., University of Maryland; M.A., Columbia University. *Lecturer in Literature.*
- Cohen, Leonard E.** (1971), B.A., University of Maryland. *Lecturer in Literary Criticism and Communications, PRIDE/AU Institute.*
- Cole, Floyd B.** (1969), B.S., Davidson College; M.S., Ph.D., State University, Rutgers. *Professorial Lecturer in Mathematics and Statistics.*
- Cole, Ralph I.** (1964), B.S., Washington University; M.S., State University, Rutgers. *Adjunct Professor of Research and Development Management.*
- Collins, George J.** (1972), B.A., Virginia Military Institute; M.B.A., The American University. *Lecturer in Working Capital Management, Business Administration.*
- Combs, Maxine S.** (1970), B.A., Mills College; M.A., Wayne State University; Ph.D., University of Oregon. *Professorial Lecturer in Literature.*
- Cook, Richard F.** (1962), A.B., National University; B.C.S., Benjamin Franklin University. *Adjunct Professor of Government and Public Administration; Director of Applied Management Program.*
- Cooley, William** (1974), B.A., Marquette University; J.D., DePaul University. *Professorial Lecturer in Administration of Justice.*
- Cooper, Gertrude** (1974), B.S., M.A., Columbia University; Ph.D., The American University. *Professorial Lecturer in Psychology.*
- Couric, John M.** (1969), B.A., Mercer University; M.A., The American University. *Adjunct Professor of Public Relations.*
- Couts, Gilbert D.** (1971), B.A., Texas Christian University. *Lecturer, English Language Institute.*
- Couturier, Edith** (1970), A.B., Sarah Lawrence College; A.M., Long Island University; Ph.D., Columbia University. *Professorial Lecturer in History.*
- Couturier, Jean Jacques** (1972), B.S., University of Nebraska; M.S., Cornell University. *Adjunct Professor of Government and Public Administration.*
- Cowen, Sheila R.** (1972), A.B., Mount Holyoke College; M.A., Ph.D., University of Pennsylvania. *Professorial Lecturer in Education.*
- Coyne, John P.** (1971), B.S., Iona College; M.S., Ph.D., Lehigh University. *Professorial Lecturer in Computer Systems Applications.*
- Crawford, Carol A.** (1973), A.A., Montgomery Junior College; B.A., The American University; M.A., University of Maryland. *Lecturer in Literature.*
- Crawford, Jeffrey L.** (1973), B.A., Hofstra University; Ph.D., University of New Hampshire. *Professorial Lecturer in Psychology.*
- Crown, David** (1971), B.S., Union College; M.A., Ph.D., University of California. *Adjunct Professor of the Administration of Justice.*

D

- Darman, Kathleen E.** (1973), B.A., Radcliffe College; M.A., Tufts University. *Lecturer in Literature.*
- Deem, Michael** (1972), B.A., Bellarmine College; M.A., Ph.D., Catholic University of America. *Adjunct Professor of Education.*
- DePriest, Douglas J.** (1974), B.S., Hampton Institute; M.S., University of Tennessee. *Lecturer in Mathematical Skills, PRIDE/AU Institute.*
- Dick, Stanley S.** (1971), B.A., Hunter College; M.S., Ph.D., Adelphi University. *Professorial Lecturer in Management Information Systems.*
- Dickson, Charles E.** (1973), *Adjunct Professor of Performing Arts (Dance).*
- Ditzen, Lowell R.** (1969), B.A., William Jewell College; B.D., McCormick Theological Seminary; D.D. (Honorary), Park College. *Professorial Lecturer in Church Management.*
- Domike, Arthur** (1973), B.A., University of

California at Los Angeles; M.S., Ph.D., University of Wisconsin. *Adjunct Professor of Economics.*

Donahue, John (1972), B.A., M.A., Fordham University; Ph.L., S.T.B., Woodstock College. *Lecturer in English.*

Doore, George S. (1970), B.A., Ohio Wesleyan University; M.A., The American University. *Lecturer in Computer Systems Applications.*

Dorigan, Janet V. (1973), B.A., Stanford University; Ph.D., University of Hawaii. *Professorial Lecturer in Biology.*

Douglas, John S. (1973), B.A., The American University. *Lecturer in Communication.*

Downie, Leonard Jr. (1973), B.A., M.A., Ohio State University. *Professorial Lecturer in Communication.*

Doyle, James R. (1971), B.S., Holy Cross College; M.P.A., The American University. *Lecturer in Management Information Systems.*

Duffner, Elizabeth (1973), B.A., Catholic University of America; M.A., The American University. *Lecturer in Special Education.*

Dunn, Nan B. (1968), B.S.N.E., M.S.N., Catholic University of America. *Adjunct Professor, Nursing.*

Dunning, Martin V. III (1970), B.A., University of Maryland; M.B.A., The American University. *Lecturer in Computer Systems Applications.*

DuPezza, Jules B. (1969), B.S., U.S. Coast Guard Academy; M.S., U.S. Naval Postgraduate School. *Professorial Lecturer in Management Information Systems.*

E

Eagle, Hazel Mary (1973), Diploma in Education, University of Oxford, England. *Lecturer in Literature.*

Easton, Anthony T. (1972), B.E.S., Johns Hopkins University; M.S., The American University. *Lecturer in Computer Systems Applications.*

Easton, Todd M. (1973), B.A., The American University. *Lecturer in Communication.*

Eidlin, Harold (1973), B.A., Long Island University; M.A., The American University. *Lecturer in Public Relations.*

Eisen, Dennis (1968), B.A.E., New York University; M.S., Brown University; Ph.D., Adelphi College. *Professorial Lecturer in Management Information Systems.*

Elfin, Margery (1973), B.A., Wellesley College; M.A., New School for Social Research and Sociology; Ph.D., Columbia University. *Professorial Lecturer in Political Science.*

Elsmore, Timothy F. (1974), B.S., Ph.D., Arizona State University. *Professorial Lecturer in Psychology.*

Emmons, Grey M. (1974), B.A., DePauw University; M.B.A., Dartmouth College. *Lecturer in Financial Accounting.*

Emrich, Duncan (1969), A.B., M.A., Columbia University; Doctor en Letras, University of Madrid; Ph.D., Harvard University. *Adjunct Professor of Literature.*

Enger, Norman (1966), B.A., College of the City of New York; M.A., Columbia University. *Adjunct Professor in Management Information Systems.*

English, Joseph (1970), B.S., St. Joseph's College; M.A., The George Washington University. *Adjunct Professor of Administration of Justice.*

Evans, Frank B. (1969), B.A., Pennsylvania State University; A.M., University of Pennsylvania; Ph.D., Pennsylvania State University. *Adjunct Professor of History.*

Everly, John (1973), Ph.D., The George Washington University. *Professorial Lecturer in Biology.*

Eyck, F. Gunther (1962), B.A., Alma College; M.S., Columbia University; M.A., Ph.D., New York University. *Adjunct Professor of International Relations, International Service.*

F

Farsaun, Karen A. (1973), B.A., University of Connecticut; M.A., State University of New York. *Professorial Lecturer in Sociology.*

Fassberg, Harold E. (1963), B.A., Ohio State University; M.A., University of Pittsburgh; Ph.D., The American University. *Adjunct Professor in Operations Research.*

Faulkner, Heather C. (1973), B.A., University of Birmingham, England; M.A., The George Washington University. *Lecturer in Literature.*

Fechter, R. Alan E. (1972), B.B.A., College of the City of New York; M.A., University of Chicago. *Professorial Lecturer in Economics.*

Feigenbaum, Carl E. (1973), B.A., Union College; Ph.D., Cornell University. *Lecturer in Education.*

Feigenbaum, Kenneth D. (1972), A.B., Queens College; A.M., Ph.D., University of Chicago. *Adjunct Professor of Psychology.*

Feld, Benjamin (1969), B.S., College of the City of New York; LL.B., S.J.D., Brooklyn Law School; Ph.D., Georgetown University. *Adjunct Professor of Administration of Justice.*

Feld, Carol A. (1973), B.A., M.A., University of Rhode Island. *Lecturer in Literature.*

Ferren, Ann S. (1971), A.B., Radcliffe; M.A.T., Harvard University; Ed.D., Boston University. *Professorial Lecturer in Education.*

Ferruzza, Regis (1970), *Lecturer in Music (Guitar).*

Fine, Theodora (1973), A.B., Brandeis University; M.A., The American University. *Lecturer in Sociology.*

Firey, Lucille (1960), B.A., M.A., The American University. *Adjunct Professor of Art.*

Fischel, Jud (1972), B.A., M.S., The American University. *Lecturer in Administration of Justice.*

Fisher, Russell H. (1972), B.S., Ursinus College; M.S., The American University. *Lecturer in Management Information Systems.*

Flint, Janet A. (1974), B.S., University of Louisville; M.A., University of Minnesota. *Professorial Lecturer in Art.*

Flowers, David (1970), B.Mus., M.Mus., University of Michigan. *Professorial Lecturer in Music (Trumpet).*

Fogash, Kenneth A. (1968), B.S., Pennsylvania State University; M.B.A., The George Washington University. *Professorial Lecturer in Computer Systems Applications.*

Fonte, Ronald J. (1974), B.A., M.Phil., The George Washington University. *Lecturer in Literature, PRIDE/AU Institute.*

Forrest, Sidney S. (1962), B.A., University of Miami; M.A., Columbia University. *Professorial Lecturer in Music (Clarinet).*

Fotis, Charles (1965), B.S., M.Ed., M.S., Tufts University; Ph.D., The American University. *Adjunct Professor of Research and Development Management.*

France, Alec (1973), B.A., Williams College; M.A., The George Washington University. *Lecturer in Literature.*

Frank, Janet E. (1972), B.A., Barnard College. *Professorial Lecturer in Music (Cello).*

Freaney, Thomas J. Jr. (1966), B.A., Temple University; LL.B., Catholic University of America. *Lecturer in Management Information Systems.*

Fretz, Earl M. (1973), B.S., Pennsylvania Military College; M.S., University of Delaware. *Lecturer in Mathematics.*

Fuhrmann, Wayne P. (1968), B.S., Trenton State College; M.P.A., The American University. *Professorial Lecturer in Computer Systems Applications.*

G

Gair, Sondra B. (1971), B.S., New York University; M.A., University of Maryland. *Adjunct Professor of Art.*

Gardiner, William A. Jr. (1972), B.A., Loyola College; M.A., Purdue University; Ph.D., University of Maryland. *Lecturer in Literature.*

Gedanken, Irving L. (1959), B.A., Brooklyn College. *Lecturer in Business Statistics, Business Administration.*

Gelberg, Allan (1969), B.S., College of the City of New York; M.S., University of Missouri. *Professorial Lecturer in Scientific and Technical Information Systems.*

Georgatos, Jerry F. (1972), B.S., California State College; M.S., Stanford University. *Lecturer in Computer Systems Applications.*

Gibbons, David M. (1972), B.A., Guilford College. *Lecturer in Economics.*

Ginlin, Joan M. (1973), B.A., Vassar College; M.A., The George Washington University. *Lecturer in Literature.*

Goen, Clarence C. (1971), B.S., University of Texas; B.A., Harden Simmons University; B.A., Ph.D., Yale University. *Adjunct Professor of History.*

Goldhar, Joel D. (1973), B.Ch.E., Rensselaer Polytechnic Institute; M.B.A., Harvard Business School; D.B.A., The George Washington University. *Professorial Lecturer in Government and Public Administration.*

Goldman, Loren (1973), B.S., M.P.A., The American University. *Lecturer in Administration of Justice.*

Gomolinski, Eleanor D. (1971), B.M., Westminster Choir College; M.A., The American University. *Lecturer in Music.*

Gottlieb, Rita S. (1971), B.M., M.S., Julliard School of Music. *Lecturer in Music (Piano).*

Graf, William S. (1973), B.S., U.S. Military Academy; M.A., Ph.D., University of Wisconsin. *Lecturer in Public Relations.*

Grant, Joseph W. (1973), B.A., Saint Augustine's College; M.Ed., University of Virginia; Ph.D., University of Maryland. *Professorial Lecturer in Education.*

Grautz, Melvin A. (1967), B.A., M.A., The George Washington University; Ph.D., Adelphi University. *Adjunct Professor of Psychology and Education.*

Greenberg, Carma M. (1974), B.A., Wellesley College; M.A., M.Phil., Columbia University. *Lecturer in History.*

Gregory, Roger (1972), B.A., M.S.C.A., The American University. *Lecturer in Administration of Justice.*

Grenough, Donald (1974), B.S., University of Louisville; M.B.A., Arizona State University. *Professorial Lecturer, Business Administration.*

Griffin, Barry S. (1970), B.S., North Carolina State University; M.S., Lehigh University; Ph.D., Virginia Polytechnic Institute. *Professorial Lecturer in Operations Research.*

Griffin, William R. (1973), B.S., Southern Connecticut State College; M.Ed., The American University. *Lecturer in Education.*

Grodsky, Morris (1971), A.B., University of California; M.A., San Francisco State College. *Professorial Lecturer in Administration of Justice.*

Gulick, Roy M. (1971), B.S., U.S. Naval Academy; B.S.E.E., U.S. Naval Postgraduate School; M.S., The Johns Hopkins University; C.I.C.E., University of Michigan. *Professorial Lecturer in Computer Systems Applications.*

Gussow, Milton (1967), B.S., U.S. Naval Academy; B.S.E.E., U.S. Naval Postgraduate School; M.S., Massachusetts Institute of Technology. *Adjunct Professor of Management Information Systems.*

H

Haberman, Joshua O. (1973), B.A., University of Vienna, Austria; B.A., University of Cincinnati; B.H.L., M.H.L., D.H.L., Hebrew Union College, Cincinnati and Jerusalem. *Lecturer in Religion.*

Hahn, E. William (1973), B.S., M.S., Ph.D., Purdue University. *Professorial Lecturer in Mathematics.*

Halloran, Jill Kamp (1973), B.A., Douglass College (State University, Rutgers); M.A., New York University. *Lecturer in Performing Arts (Drama).*

Hammér, Carl (1963), B.S., Luitpold Oberrealschule; Ph.D., University of Munich. *Adjunct Professor of Computer Systems Applications.*

Hampton, Carl (1974), B.S., University of Illinois; M.A., University of California, Los Angeles. *Professorial Lecturer in Administration of Justice.*

Hannan, James W. (1971), B.A., Holy Cross College; M.A., Harvard University; M.S., The American University. *Lecturer in Management Information Systems.*

Hardy, Adriana A. (1972), B.S., Fredonia State Teachers College. *Lecturer in Music (Voice).*

Harper, Jackson D. (1968), B.A., University of Washington; M.C.S., Texas A&M University. *Professorial Lecturer in Computer Systems Applications.*

Harper, Mary A. (1969), B.A., Dunbarton College; M.A., Ph.D., Georgetown University. *Professorial Lecturer in Philosophy.*

Harris, David Reed (1973), B.S., B.A., Carnegie-Mellon University; M.A., Texas Christian University; Ph.D., Ohio State University. *Professorial Lecturer in Computer Systems Applications.*

Harris, Fred R. (1973), B.A., LL.B., University of Oklahoma; United States Senator, 1964-1972. *Adjunct Professor of Government and Public Administration.*

Harris, Truman (1974), B.A., North Texas State University; M.Mus., Catholic University of America. *Lecturer in Music (Bassoon).*

Hauge, Sharon K. (1973), B.A., Fort Hays State University; M.S., Oklahoma State University. *Lecturer in Mathematics.*

Hawthorne, William L. (1972), B.Mus., Ball State University; M.Mus., Catholic University of America. *Lecturer in Music (String Bass).*

Haynie, Ronald M. (1970), B.A., M.F.A., The American University. *Professorial Lecturer in Art.*

Hearn, Norman F. (1971), A.B., M.A., University of Michigan; Ed.D., George Washington University. *Professorial Lecturer in Education.*

Helder, Charles H. (1972), B.S.E.E., Iowa

State University; M.S.E., University of Pennsylvania; Ph.D., University of Illinois. *Professorial Lecturer in Operations Research.*

Helzer, Sue Ann (1974), B.A., Georgian Court College; B.A., University of Maryland. *Lecturer in Mathematics.*

Henderson, Lynwood H. (1973), B.S., M.B.A., University of Maryland. *Lecturer in Financial Accounting.*

Henoch, Ruth F. (1972), A.B., Stanford University; M.A., The American University. *Lecturer in Literature.*

Herman, Eugene H. (1973), B.A., University of California; M.S., Ph.D., University of California Medical Center. *Professorial Lecturer in Chemistry.*

Hinze, William H. (1972), B.S., Lawrence University; M.A., Columbia University; Ph.D., Indiana University. *Professorial Lecturer in Education.*

Hlatshwayo, Madoda N. S. (1974), B.S., Syracuse University; M.S., University of California. *Lecturer in Black Cultural Heritage and the Social Sciences, PRIDE/AU Institute.*

Hobson, Julius W. (1970), B.S., Wayne State University; M.A., Howard University. *Professorial Lecturer in Sociology.*

Hochberg, Philip R. (1974), B.S., Syracuse University; LL.B., The George Washington University. *Lecturer in Communication.*

Hoescheu, Daniel C. (1973), B.A., Central Washington State College; M.A., Western Michigan University. *Lecturer in Sociology.*

Hoke, Charles H. (1971), B.S., University of Rochester; M.P.A., Ed.D., The American University. *Professorial Lecturer in Management Information Systems.*

Hollander, Elaine K. (1970), B.A., Goucher College; M.Ed., Ph.D., The American University. *Adjunct Professor of Sociology.*

Hollander, Roberta (1973), B.A., Boston University; M.A., The George Washington University. *Lecturer in Sociology.*

Hoose, Frederick R. (1972), B.S., The Citadel State College; M.S., New Mexico State University. *Lecturer in Problem Analysis.*

Horblitt, Stephen (1972), B.A., M.A., Hofstra University. *Professorial Lecturer in Administration of Justice.*

Horlick, Reuben (1971), B.S., Brooklyn College; M.S., College of the City of New York; Ph.D., New York University. *Adjunct Professor of Psychology.*

Horowitz, Donald L. (1974), A.B., LL.B., Syracuse University; Ph.D., Harvard University. *Adjunct Professor of Government and Public Administration.*

Horowitz, Judith A. (1972), B.A., M.A., Syracuse University. *Lecturer in Education.*

Horton, Forest W. Jr. (1973), B.A., University of California; M.A., University of California, Los Angeles; Ph.D., University of Lausanne.

Professorial Lecturer in Management Information Systems.

Howard, Bennie C. (1972), B.S., Howard University; M.S.T., The American University. *Lecturer in Education in Day Care Schools, PRIDE/AU Institute.*

Howard, Frank E. (1973), B.M.E., Indiana University; M.Mus., Catholic University of America. *Lecturer in Music (Trombone).*

Howerton, Paul W. (1962), Ph.B., Northwestern University; Certificate in Hindi, University of Calcutta; Certificate in Arabic and Middle Eastern Studies, The American University of Beirut. *Adjunct Professor of Management Information Systems.*

Hudnell, Lewis (1972), B.A., Morgan State College; J.D., Howard University School of Law. *Professorial Lecturer in Administration of Justice; Lay Advocacy.*

Hudson, Theodore R. (1973), B.S., Miner Teachers College; M.A., New York University; M.A., Howard University. *Adjunct Professor of Literature.*

Hughes, John (1970), A.B., M.S.W., Fordham University. *Adjunct Professor of Administration of Justice.*

Huhn, Nan (1970), B.A., Harpur College; J.D., Washington College of Law. *Adjunct Professor of Administration of Justice.*

Humphrey, Clyde W. (1958), B.S., Eastern Kentucky State College; M.A., George Peabody College for Teachers; M.Rel.Ed., Wesley Theological Seminary; Ed.D., The American University. *Adjunct Professor of Church Management.*

Huntington, Stuart L. (1973), A.B., Columbia College; M.S., U.S. Naval Postgraduate School. *Lecturer in Management Information Systems.*

Hursh, Steven R. (1973), B.A., Wake Forest University; Ph.D., University of California. *Professorial Lecturer in Psychology.*

I

Iannelli, Gerald C. (1971), A.B., M.B.A., Harvard University; LL.B., LL.M., New York University. *Lecturer in Government Regulation and Control of Business, Business Administration.*

Isaacs, Neil D. (1973), A.B., Dartmouth College; A.M., University of California; Ph.D., Brown University. *Adjunct Professor of Literature.*

Iverson, Sterling H. Jr. (1972), B.S., Massachusetts Institute of Technology; M.B.A., Harvard University. *Lecturer in Finance, Business Administration.*

J

Jackson, Johnnie (1972), B.S., Prairie View

A&M College; M.S., The American University. *Lecturer in Computer Systems Applications.*

Jackson, Nellie J. (1973), B.A., East Carolina University. *Lecturer in Communication.*

Jacobson, Harald W. (1972), B.S., Queens College; LL.B., Harvard Law School. *Professorial Lecturer in Government and Public Administration.*

James, Robert L. (1973), B.A., M.S., University of Texas. *Lecturer in Computer Systems Applications.*

Johnson, John L. (1973), B.S., M.Ed., Wayne State University; Ed.D., Michigan State University. *Adjunct Professor of Education.*

Johnson, Martin Ed (1972), B.S.E.E., Pennsylvania State University; M.S.E.E., University of Illinois. *Lecturer in Computer Systems Applications.*

Jonas, Linda I. (1971), B.Mus., Curtis Institute; M.Mus., D.Mus., Yale University. *Lecturer in Music (Flute).*

Jones, Howard (1971), B.S., University of Houston; M.S., Howard University. *Lecturer in Administration of Justice.*

Jorgensen, Robert R. (1972), B.S., D.V.M., M.P.H., University of Minnesota; M.A., U.S. Naval Postgraduate School. *Lecturer in Computer Systems Applications.*

Jumara, John (1974), B.A., M.A., University of Missouri. *Lecturer in Economics.*

K

Kahn, Robert K. (1973), A.B., University of Pennsylvania; M.A., The George Washington University; Ph.D., Pennsylvania State University; Certificate, Washington School of Psychiatry. *Adjunct Professor of Psychology.*

Kanhauwa, Suraj P. (1971), B.A., M.A., Hislop College, Nagpur University, India. *Lecturer in Economics.*

Kaplan, Sylvan (1972), B.A., M.A., University of Houston; M.S., Howard University; Ph.D., The George Washington University. *Lecturer in Administration of Justice.*

Karlik, John R. (1974), A.B., Middlebury College; Ph.D., Columbia University. *Professorial Lecturer in Economics.*

Katz, Sidney M. (1973), B.E., The Johns Hopkins University; M.A., Ph.D., Princeton University. *Professorial Lecturer in Computer Systems Applications.*

Kaufman, Janet E. (1974), B.A., M.A., Ph.D., The American University. *Lecturer in History.*

Keenan, John A. III (1974), B.B.A., B.S., M.S., University of Wisconsin. *Lecturer in Computer Systems Applications.*

Kelly, J. Thomas (1973), B.S., University of South Carolina; Ph.D., Texas A&M University. *Lecturer in Business Economics, Business Administration.*

Kelly, John P. (1966), B.B.A., Manhattan Col-

lege; M.S., The American University. *Lecturer in Computer Systems Applications.*

Kidd, Milton R. (1972), B.A., M.A., The American University. *Lecturer in Music (Piano).*

Klein, Lester (1973), B.A.E., Rensselaer Polytechnic Institute; M.A., The American University. *Lecturer in Mathematics.*

Koback, George J. (1967), B.C.S., M.C.S., Benjamin Franklin University; M.F.A., The Catholic University of America. *Professorial Lecturer in Computer Systems Applications.*

Kopprasch, Robert W. (1973), B.S., M.S., Rensselaer Polytechnic Institute. *Instructor in Finance, Business Administration.*

Kraft, Stephen J. (1958), A.B., Bucknell University. *Adjunct Professor of Art.*

Kramer, M. Howard (1965), B.E.E., Rensselaer Polytechnic Institute; M.E.E., New York University. *Professorial Lecturer in Management Information Systems.*

Kretz, James (1973), A.B., M.A., Indiana University. *Professorial Lecturer in Administration of Justice.*

Krieger, Joseph L. (1970), B.B.A., M.B.A., College of the City of New York; Ph.D., The American University. *Adjunct Professor in Management Information Systems.*

Krieger, Stanley (1969), A.B., Northeastern University; LL.B., Boston University School of Law. *Adjunct Professor of Administration of Justice.*

Kullback, Joseph H. (1970), A.A., A.B., The George Washington University; M.S., Ph.D., Stanford University. *Professorial Lecturer in Statistics.*

L

Landau, Robert M. (1967), B.S.E.E., Indiana Technical College; B.S., M.P.A., LL.B., The American University. *Professorial Lecturer in Management Information Systems.*

Lane, Dana Wanger (1974), B.A., M.A., University of Arkansas. *Lecturer in Literature.*

LaRue, Charles J. (1970), B.S., Wilson Teachers College; M.Ed., University of Maryland; M.A., University of Texas; Ph.D., University of Maryland. *Adjunct Professor of Education.*

Laurent, Lawrence B. (1964), *Adjunct Professor of Communication.*

Leckie, Hubert (1957), *Adjunct Professor of Art.*

Lefever, Ernest W. (1961), B.D., Ph.D., Yale University; *Adjunct Professor of International Relations, International Service.*

Leidecker, Martha K. (1973), B.A., Ph.D., Catholic University of America. *Lecturer in Physics.*

Leigh, Gary A. (1973), B.S., D.C. Teachers College; M.A., The American University. *Lecturer in Mathematics.*

Leijk, Richard A. (1967), B.E.E., Georgia Institute of Technology; M.S.E., University of Michigan; Ph.D., Texas A&M University. *Professorial Lecturer in Operations Research.*

Leonard, William R. (1970), B.A., Beloit College; M.A., Northwestern University. *Lecturer in Communication.*

Lesche, Robert (1973), B.S., University of Maryland. *Lecturer in Financial Accounting.*

Leso, Thomas J. (1973), B.S., M.S., Pennsylvania State University. *Lecturer in Mathematics.*

Levin, Robert (1970), B.A., University of Maryland; J.D., Harvard Law School. *Professorial Lecturer in Administration of Justice.*

Levine, Daniel B. (1972), A.B., Colgate University; M.A., The George Washington University; Ph.D., Catholic University of America. *Professorial Lecturer in Business Economics, Business Administration.*

Levine, Ruth E. (1974), B.A., M.A., The American University. *Lecturer in Art.*

Lewis, Melvin (1949), A.B., M.B.A., The George Washington University. *Adjunct Professor of Accounting, Business Administration.*

Lieblich, Jerome (1973), B.A., Colgate University; J.D., Harvard Law School. *Adjunct Professor of Administration of Justice.*

Little, Paul (1969), LL.B., Cumberland University. *Adjunct Professor of Administration of Justice.*

Lloyd, John M. Jr. (1967), B.S., Kent State University; M.A., The George Washington University. *Professorial Lecturer in Computer Systems Applications.*

Logan, Jimmie J. (1970), B.S.E.E., M.S.E.E., Southern Methodist University; D.Sc., The George Washington University. *Professorial Lecturer in Computer Systems Applications.*

Logan, Ralph D. (1972), B.A., M.A., University of Maryland. *Professorial Lecturer in Art.*

Long, David E. (1973), B.A., Davidson College; M.A., University of North Carolina; M.A., Fletcher School of Law and Diplomacy; Ph.D., The George Washington University. *Professorial Lecturer in International Relations, International Service.*

Luke, Robert A. Jr. (1973), B.A., Colgate University; M.A., Ph.D., University of Maryland. *Adjunct Professor of Government and Public Administration.*

Lumbard, Thomas (1973), A.B., Harvard University; LL.B., University of Pennsylvania Law School. *Adjunct Professor of Judicial Administration.*

M

Maciejewski, Norman T. (1973), B.S., St. John Fisher College. *Lecturer in Computer Systems Applications.*

- Mackenthun, Kenneth** (1973), B.A., College of Emporia; M.A., University of Illinois. *Professorial Lecturer in Environmental Systems Management.*
- MacLeod, Norman H.** (1972), B.S., University of Chicago; M.S., University of Massachusetts; Ph.D., University of Maryland. *Senior Research Scientist in Biology.*
- MacMullan, Caroline L.** (1973), B.A., University of Washington, Seattle. *Lecturer in Literature.*
- Mallon, Elias D.** (1969), A.B., St. Pius X College; S.T.B., Catholic University of America. *Lecturer in Religion.*
- Mann, Wallace H.** (1962), B.Mus., Eastman School of Music. *Lecturer in Music.*
- Marcantonio, Vada Ward** (1969), B.A., University of the Pacific; M.A., Columbia University. *Professorial Lecturer in Performing Arts.*
- Marcellus, John R.** (1968), B.S., University of Maryland. *Lecturer in Music (Trombone).*
- Marks, Morton H.** (1968), B.S., U.S. Naval Academy; M.P.A., The American University. *Professorial Lecturer in Computer Systems Applications.*
- Marlow, John E.** (1963), B.A., The American University. *Professorial Lecturer in Music (Guitar).*
- Martin, Frederick T.** (1971), B.A., University of Maryland; M.P.A., The American University. *Lecturer in Computer Systems Applications.*
- Martin, James J.** (1968), B.A., University of Wisconsin; M.A., U.S. Naval Postgraduate School; Ph.D., Massachusetts Institute of Technology. *Professorial Lecturer in Operations Research.*
- Martin, Susan** (1973), B.A., Swarthmore College; M.S., University of Rochester. *Lecturer in Administration of Justice.*
- Martin, Wilbur F.** (1972), *Lecturer in Public Relations.*
- Masten, Edwin C.** (1974), B.A., University of Pittsburgh; M.B.A., The American University. *Lecturer in Marketing, Business Administration.*
- Matthews, Peter F.** (1972), B.A., Carleton College; M.A., The American University. *Lecturer in Mathematics.*
- Mattiace, John M.** (1974), B.S., U.S. Naval Academy; M.S., The American University. *Lecturer in Research and Development Management.*
- McBride, Donald B.** (1974), B.S.B.A., University of Missouri; M.A., Trinity University. *Professorial Lecturer in Government.*
- McCormick, Edward M.** (1960), B.S., M.S., Kansas State College of Pittsburg; Ph.D., The American University. *Professorial Lecturer in Computer Systems Applications.*
- McDonald, William** (1971), A.B., University of Notre Dame; M.Ed., Boston College; D.Crim., University of California. *Professorial Lecturer in Administration of Justice.*
- McFarland, Malcolm C.** (1973), Ph.B., Spring Hill College; M.A., Ph.D., Georgetown University. *Professorial Lecturer in Real Estate and Urban Development, Business Administration.*
- McGee, Eleanor Lee** (1973), B.A., Frostburg State College; M.A., Yale University Divinity School. *Lecturer in American Studies.*
- McGuckian, George** (1974), B.S., University of Maryland; M.S., The American University. *Lecturer in Computer Systems Applications.*
- McLaughlin, Donald** (1969), B.F.A., Yale University; Diploma, Institute of Beaux Arts. *Adjunct Professor of Art.*
- McNichols, Gerald R.** (1967), B.S., Case Institute of Technology; M.S., University of Pennsylvania. *Professorial Lecturer in Computer Systems Applications.*
- Mehler, Ivan B.** (1972), B.A., University of Richmond; M.B.A., The American University. *Lecturer in Accounting.*
- Meisner, Arthur S.** (1973), B.A., University of Georgia; J.D., University of North Carolina. *Lecturer in Business Law.*
- Melchior, Bonnie** (1973), B.A., Stanford University; M.A., University of California, Los Angeles. *Professorial Lecturer in Literature.*
- Meloy, Thomas** (1974), A.B., Harvard University; B.S., Ph.D., Massachusetts Institute of Technology. *Professorial Lecturer in Environmental Systems Management.*
- Merrick, Roswell D.** (1962), B.S., Springfield College; M.A., New York University; Ed.D., Boston University. *Adjunct Professor of Physical Education.*
- Merz, Albert H.** (1972), B.Mus., Eastman School of Music; M.Mus., The Catholic University of America. *Lecturer in Music (Percussion).*
- Messinger, Florence** (1972), B.A., Wells College; M.A., Southern Methodist University. *Lecturer in Mathematics.*
- Middleton, Howard** (1974), B.A., Haverford College; B.D., Union Theological Seminary; J.D., Georgetown University Law Center. *Professorial Lecturer in Administration of Justice.*
- Migdail, Sherry R.** (1972), B.A., Hunter College; M.Ed., The American University. *Lecturer in Education.*
- Migdal, Ann Dewey** (1973), B.M.Ed., University of Miami. *Lecturer in Music (Oboe).*
- Miles, John J.** (1972), B.S., University of Notre Dame; M.S., Southern Methodist University; Ph.D., Cornell University. *Professorial Lecturer in Mathematics.*
- Miller, Jerrold D.** (1974), B.S., Massachusetts Institute of Technology; M.S., University of Wisconsin; J.D., The American University. *Lecturer in Business Law, Business Administration.*
- Miller, Vivian C.** (1971), B.S., D.C. Teachers College; M.A., The George Washington Uni-

versity. *Adjunct Professor in Language Skills, PRIDE/AU Institute.*

Molitar, Graham T. (1970), B.A., University of Washington; LL.B., The American University. *Lecturer in Corporate Public Affairs.*

Montemezzi, Marco A. (1973), B.S., California Institute of Technology; M.A., The American University. *Lecturer in Mathematics.*

Moore, Charles Jr. (1973), B.S., University of Maryland. *Professorial Lecturer in Real Estate.*

Moore, Robert M. (1973), B.A., West Virginia Wesleyan; M.A., University of Maryland; Ph.D., Kent State University. *Professorial Lecturer.*

Morley, E. Dean (1973), B.A., University of Michigan. *Lecturer in Real Estate.*

Morris, Donald L. (1971), B.A., University of Notre Dame; M.S., The George Washington University. *Lecturer in Management Information Systems.*

Morss, Elliott R. (1973), B.A., Williams College; Ph.D., The Johns Hopkins University. *Associate Research Scientist in Economics.*

Mosimann, James E. (1970), B.S., M.S., Ph.D., University of Michigan; M.S., The Johns Hopkins University. *Adjunct Professor of Statistics.*

Moulton, Harland B. (1970), B.A., M.A., Ph.D., University of Minnesota. *Adjunct Professor of International Relations.*

Muenz, Larry R. (1973), B.A., New York University; M.A., The American University; Ph.D., Stanford University. *Professorial Lecturer in Statistics.*

Muller, Richard L. (1971), B.S., Queens College. *Lecturer in Computer Systems Applications.*

Mullins, S. Arthur (1967), B.S., University of Havana. *Professorial Lecturer in Public Relations.*

Murphy, Glen (1965), B.S., Michigan State University; LL.B., St. Louis University College of Law. *Adjunct Professor of Administration of Justice.*

Murphy, James (1973), B.A., St. Martin's College; M.A., University of Washington. *Lecturer in Corrections.*

Murray, Thomas H. (1968), B.S., Illinois Institute of Technology; M.S., Georgia Institute of Technology. *Professorial Lecturer in Management Information Systems.*

Mutter, Herbert B. (1974), B.S., LL.B., University of Maryland. *Professorial Lecturer in Public Relations.*

Myers, Charlotte T. (1973), B.A., Western Maryland College; M.A., The American University. *Lecturer in Sociology.*

N

Nalesnik, Richard P. (1972), B.S., M.S., Boston University; Ph.D., The American Univer-

sity. *Professorial Lecturer in Environmental Systems Management.*

Narragon, Eugene A. (1973), B.S., Augustana College; M.S., Florida State University; Ph.D., University of Illinois. *Professorial Lecturer in Operations Research.*

Neal, Jack C. (1973), A.B., M.A., University of Michigan. *Lecturer in Public Relations.*

Nemarich, Joseph (1967), B.S., College of the City of New York; M.S., University of Michigan; Ph.D., University of Maryland. *Adjunct Professor of Physics.*

Neugent, H. William (1973), B.A., University of Connecticut; M.S., The American University. *Lecturer in Management Information Systems.*

Newman, Ira (1970), B.A., College of the City of New York. *Lecturer in Computer Systems Applications.*

Newman, Neil J. (1972), A.B., Bates College; LL.B., Boston University. *Lecturer in Advanced Business Law, Business Administration.*

Newman, Ruth (1973), *Adjunct Professor of Special Education.*

Newton, David J. Jr. (1970), A.B., Howard University; M.S., The American University; E.D.L. Certificate. *Professorial Lecturer in "The Educational Institution", PRIDE/AU Institute.*

Nicolopoulos, John A. (1974), B.A., Pomona College; B.A., University of London. *Professorial Lecturer in Languages and Foreign Studies.*

Nishida, Masahito (1966), B.A., Columbia Union College. *Lecturer in Physical Education.*

Nobleman, Eli (1971), B.A., LL.B., LL.M., J.S.D., New York University. *Adjunct Professor of Judicial Administration.*

Nyakatey, Ebenezer (1973), B.S., University of Ghana; M.A., The American University. *Lecturer in Economics.*

O

Ogburn, Vera (1968), *Professorial Lecturer in Art.*

Oliver, Paul A. (1971), B.S., University of Maryland; M.S., Ohio State University; Ph.D., University of North Carolina. *Professorial Lecturer in Mathematics.*

Olkovsky, George A. (1970), B.A., M.A., University of Minnesota; Ph.D., Georgetown University. *Adjunct Professor of Languages and Foreign Studies.*

Oms, Luis Amerigo (1972), B.S., M.S., Emory University. *Lecturer in Physics.*

Openshaw, James L. (1967), B.S., Drexel Institute of Technology; M.S., Massachusetts Institute of Technology. *Professorial Lecturer in Computer Systems Applications.*

Orloff, Leonard M. (1970), B.S., M.A., The George Washington University; Ed.D., Georgetown University; J.D., Washington College of Law. *Adjunct Professor of Education.*

O'Rourke, Donald J. (1965), A.A., Grant Technical College; B.A., Sacramento State College; B.A., California State College. *Professorial Lecturer in Computer Systems Applications.*

P

Pacak, Milos G. (1967), LL.D., D.Pol.Sci., Charles University, Prague. *Adjunct Professor in Scientific and Technical Information Systems.*

Pack, Charles Randall (1967), B.S.E.E., Virginia Military Institute; M.S.M.E., Rensselaer Polytechnic Institute; M.S.I.E., Stanford University. *Professorial Lecturer in Management Information Systems.*

Palmour, Jody (1971), B.A., Emory University. *Lecturer in Administration of Justice.*

Parris, Elliott (1970), B.A., University of West Indies; M.A., University of California. *Professorial Lecturer in Sociology.*

Patrick, Victor E. (1970), B.A., Emory University; M.A., The George Washington University; M.P.A., The American University. *Lecturer in Management Information Systems.*

Peabody, Gerald E. (1974), A.B., University of California; A.M., Ph.D., Harvard University. *Professorial Lecturer in Economics.*

Pease, William (1973), B.A., University of Maryland; J.D., Boston University Law School. *Lecturer in Administration of Justice.*

Peirson, Gwyn Walker (1973), A.A., Contra Costa College; B.A., M.A., University of California. *Professorial Lecturer in Administration of Justice.*

Perkins, Robert C. (1974), B.S., Texas Technological University; M.S., U.S. Naval Postgraduate School. *Lecturer in Management Information Systems.*

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Pfeiffer, William G. (1968), B.S.C., Loyola University. *Lecturer in Management Information Systems.*

Phalen, Thomas D. (1967), A.B., Hunter College; M.A., The American University. *Professorial Lecturer in Computer Systems Applications.*

Phillips, Reed Jr. (1973), B.A., State University of Iowa; M.S., The American University. *Lecturer in Management Information Systems.*

Plavnick, Robert L. (1971), B.Arch., Cornell

University. *Professorial Lecturer in Government and Public Administration.*

Plotkin, Robert (1973), B.A., University of Cincinnati; J.D., University of Cincinnati College of Law; LL.M., New York University School of Law. *Lecturer in Administration of Justice.*

Podell, Harold J. (1971), B.I.E., New York University; M.B.A., Syracuse University; M.S.E., University of Alabama. *Lecturer in Management Information Systems.*

Polyak, Steven T. (1972), Ph.D., Swiss Federal Institute of Technology. *Professorial Lecturer in Mathematics and Statistics.*

Pomrenze, Seymour J. (1955), B.S., Illinois Institute of Technology; M.A., University of Chicago. *Adjunct Professor of Management Information Systems.*

Poppe, Charles R. (1970), B.S., University of California; M.B.A., The George Washington University. *Lecturer in Computer Systems Applications.*

Poore, Thomas (1973), B.S., D.C. Teachers College; M.Ed., University of Maryland; Ed.D., The American University. *Professorial Lecturer in Education.*

Porter, G. Hinckley (1972), A.B., Harvard College. *Lecturer in Public Relations.*

Porter, Richard (1974), B.S., M.S., Ph.D., University of Wisconsin. *Professorial Lecturer in Economics.*

Portney, Arlene Sandler (1972), B.Mus., Curtis Institute of Music; M.S., Juilliard School of Music. *Lecturer in Music (Piano).*

Posner, Bernard (1959), A.B., University of Cincinnati; M.A., The American University. *Adjunct Professor of Public Relations.*

Proctor, Lois P. (1970), B.S., University of Pennsylvania; M.Ed., The American University. *Lecturer in Education.*

Prokop, Jan S. (1970), B.S., U.S. Naval Academy; M.S., U.S. Naval Postgraduate School; Ph.D., University of North Carolina. *Professorial Lecturer in Computer Systems Applications.*

R

Rabun, Ted Morris (1965), B.S., University of Florida; M.S., University of Illinois. *Professorial Lecturer in Accounting, Business Administration.*

Ratway, John (1970), B.S., Muhlenberg College; M.S.E., The George Washington University. *Lecturer in Operations Research.*

Reich, Tova R. (1973), B.A., City University of New York; M.A., New York University. *Lecturer in Literature.*

Reiman, Rosalind (1972), B.A., Queens College; M.A., Catholic University of America. *Lecturer in Psychology.*

Reynard, Ruth (1973), B.A., University of Mis-

Mississippi. *Lecturer in Scientific and Technical Information Systems.*

Reynolds, John R. (1973), B.A., East Carolina University; M.A., The American University. *Lecturer in Communication.*

Ridenour, Paul W. (1973), B.S., Ohio State University; M.B.A., U.S. Air Force Institute of Technology. *Lecturer in Church Management.*

Riley, Tom (1969), B.A., Heidelberg College. *Professorial Lecturer in Communication.*

Rispin, Amy Sue (1971), B.S., M.S., The American University; Ph.D., Catholic University of America. *Professorial Lecturer in Chemistry and Nursing.*

Rivkin, Goldie (1973), B.A., Radcliffe College; M.C.P., Harvard Graduate School of Design. *Professorial Lecturer in Government and Public Administration.*

Roberts, Lucille D. (1972), B.S., Howard University; A.M.F.A., University of Michigan. *Professorial Lecturer in Art.*

Robertson, Richard S. (1967), B.S., University of Texas; M.S., U.S. Naval Postgraduate School. *Lecturer in Management Information Systems.*

Romo, Jacob M. (1973), B.A., University of Massachusetts; M.S.W., University of Pennsylvania; Ph.D., Brandeis University. *Professorial Lecturer in Sociology.*

Rooney, John J. (1968), B.A., University of Pittsburgh; M.B.A., Syracuse University. *Adjunct Professor in Management Information Systems.*

Rosenberg, Morris (1962), B.A., Brooklyn College; M.A., Ph.D., Columbia University. *Adjunct Professor of Sociology.*

Rosenblatt, Harry (1958), B.S., M.S., Ph.D., The George Washington University. *Adjunct Professor of Mathematics and Statistics.*

Ross, Barbara J. (1973), B.A., Clark College; M.A., Northwestern University; Ph.D., The American University. *Professorial Lecturer in American Studies.*

Roth, Gordon (1967), B.A., University of Minnesota. *Professorial Lecturer in Public Relations.*

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Rouselle, Charles (1973), B.A., Morgan State College; M.S.W., Howard University. *Lecturer in Corrections.*

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Rublin, Gerald (1973), B.S., Pennsylvania State University; M.S., State University of New York. *Lecturer in Mathematics.*

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Ruppert, Frank M. (1972), S.T.L., Gregorian University; M.Ed., Ph.D., The American University. *Professorial Lecturer, Education.*

Ruser, Claus W. (1973), B.A., University of Minnesota; M.A., Indiana University; Ph.D., Massachusetts Institute of Technology. *Professorial Lecturer in International Relations.*

Russell, Albert (1970), *Lecturer in Music (Organ).*

Ruttenberg, Ruth (1973), B.A., University of Wisconsin; M.C.P., University of Pennsylvania. *Professorial Lecturer in Government and Public Administration.*

Rymer, Frank P. Jr. (1967), B.S., University of Omaha; M.A., The American University. *Professorial Lecturer in Management Information Systems.*

S

Sabine, Yvonne M. (1969), B.A., The American University. *Lecturer in Music (Voice).*

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T

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Taylor, Prentiss (1957), *Professorial Lecturer in Art.*

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Trowbridge, A. Buel (1960), B.A., Cornell University; Diploma, Oxford University; M.A., Union Theological Seminary. *Adjunct Professor Emeritus of International Relations, International Service.*

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W

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- Watkins, Carolyn L.** (1970), B.A., Barber-Scotia College; M.A., Wellesley College. *Lecturer in Literature.*
- Watson, Marjorie H.** (1969), B.A., Queens College, City University of New York; M.A., New York University. *Lecturer in Literature.*
- Watts, Harriet M.** (1973), B.A., Radcliffe College. *Lecturer in Art.*
- Wechsler, Leon R.** (1973), B.S., Purdue University; M.S., Worcester Polytechnic Institute. *Lecturer in Mathematics and Statistics.*
- Weeks, David C.** (1966), B.A., McGill University; M.A., Ph.D., University of London, Kings College, England. *Adjunct Professor in Scientific and Technical Information Systems.*
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- Wilson, Edwin B.** (1971), B.S., Virginia Polytechnic Institute; M.S., Ph.D., Texas A&M University. *Professorial Lecturer in Computer Systems Applications.*
- Wilson, Robert J.** (1974), B.S., Fordham University; M.S., The American University. *Lecturer in Management Information Systems.*
- Wiltamuth, Richard E.** (1971), B.A., Drake University; M.S., The American University. *Lecturer in Management Information Systems.*
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X

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Y

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Z

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Director	Gary R. Weaver	McKinley 253	2530
Public Relations Program			
Director	Jack C. Seigle	McKinley 205	2500
STRIDE Program			
Director	Judy Newhouser	McKinley 153	2500

LAW, WASHINGTON COLLEGE OF

Dean	Gordon A. Christenson	Myers 106	2605
Asst. Dean	James M. Hollomon	Myers 106	2603
Registrar	Emalee Godsey	Myers 101	2600
Admissions Officer	Jane M. Boggs	Myers 101	2606
Placement Officer	Marian Napier	Myers 105	2624
Law Librarian	Patrick E. Kehoe	Myers, lower level	2625
Institute for Studies in Justice and Social Behavior			
Director	Nicholas N. Kittrie	2139 Wisc. Ave.	3800

NURSING, LUCY WEBB HAYES SCHOOL OF

Dean	Laura B. Kummer	McCabe 205	2430
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PUBLIC AFFAIRS, COLLEGE OF

Dean	Morris W. H. Collins Jr.	Ward 102	3850
Executive Asst.	August Kursar	Ward 103A	3850
Director of Public Management			
Programs	Robert P. Boynton	Ward 307	2375
Director of Contract and Grant Programs			
Emery A. Link	Ward 103	3850	
Assoc. for Program Planning	Susan W. Torrence		
Center for the Administration of Justice			
Director	David J. Saari	Leon. Ctr. 201	2532
Administrative Officer	Jenny McGough	Leon. Ctr. 201	2532
Law Enforcement Education			
Program (LEEP)	Andrea Wilson	Leon. Ctr. 201	2532
Center for Technology and Administration			
Acting Director	Richard A. Bassler	McKinley 206	2513
Administrative Aide to the Director	Joseph J. Gibbs	McKinley 206	2513
School of Government and Public Administration			
Dean	A. Lee Fritschler	Ward 303	2372
Director, Undergraduate			
Academic Counseling	Joan May	Ward 222	2344
Assoc. Dean, Graduate Programs	Coralie Bryant	Ward 209	2354
Washington Semester Program			
Director	David C. Brown	Ward 216	2368
Director of Public Administration			
Programs	Donald Zauderer	Ward 211	2361
Director of Urban Programs	Bernard Ross	Ward 201	2363
School of International Service			
Dean	Robert W. Gregg	SIS 100	2468
Assoc. Dean	William Cromwell	SIS 14	2482

Graduate Academic Counselor	Nancy Eddy	SIS 205	2483
Undergraduate Academic Counselor	Elizabeth Myers	SIS 103	2474
Administrative Asst.	Marjorie W. Newby	SIS 100	2468

SPECIAL PROGRAMS

Interdisciplinary Studies

Coordinator	Phillip H. Scribner	MGC 200	2637
Asst. to the Coordinator	Daniel McCall	MGC 200	2637
Committee Chairman	Henry Taylor	Gray-230	2455

University Learning Center

Director	Charles B. Ferster	Learning Ctr.	3853, 3854
General Staff			2339

ADMINISTRATIVE AND SERVICE OFFICES

Academic Administration Office

Director		Asbury 315	2398
Acting Director	Elizabeth H. Sibolski	Asbury 300	2398
Director of Information Systems	Richard E. Wingate	Asbury 216	2383

Academic Affairs Office

Vice President for Academic Affairs	Nathaniel S. Preston	Pres. Bldg.	2124
Asst. to the Vice President	Robert R. Hoart	Pres. 21	2124

Academic Development and Research Office

Director	Frank J. Barros	Asbury 308	2697
Office of Program and Research Development Director	Tom Proulx	Asbury 308	2292

Accounting Office (See Treasurer's Office)

Admissions, Financial Aid, and Veterans Affairs, Programs and Services

General Information			2211
Receptionist	Anne Ittner	Asbury 111	2211

Associate Dean of Freshman

Admissions, Financial Aid, and Veterans Affairs, Programs and Services	Ned G. Boehm, Jr.	Asbury 110B	2816
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Associate Dean of Transfer

and Graduate Admissions, Financial Aid, and Veterans Affairs, Programs and Services	Edward J. van Kloborg III.	Asbury 110A	3856
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Assistant Director of Freshman

Admissions	Shirley P. Kemelhor	Asbury 102B	2816
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Assistant Director of Transfer

Admissions	Dorothy D. Mackin	Asbury 111A	2820
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Assistant Director of Graduate

Admissions	Jerald Garland	Asbury 111A	2820
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Associate Director for

Administration	George A. Schiller, Jr.	Asbury 104B	2077
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Associate Director for

Publications and Research	Josephine E. Cortese	Asbury 104A	2077
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Coordinator, Wide Horizons Program

for Transfer Students	Deborah Bender	Asbury 106	3855
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Coordinator, Financial Aid	Mary Joan McCarthy	Asbury 106	2075
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Coordinator, International Admissions	Virginia Malone	Asbury 111B	2815
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Coordinator, Veterans Affairs	Kathleen Smith	Asbury 106	2826
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Alumni Office

Director	John T. Hohman	5010 Wisc. Ave.	2085
Asst. Director	Richard Tomford	5010 Wisc. Ave.	2085

Archives

Archivist	Marion Logue	Battelle	2331
Archives Asst.	Thomas A. Bevan	Battelle	2331

Athletics			
Director	Robert H. Frailey	Leon. Ctr.	2560
Audio Visual Services			
Director		BC 101	2296
Production Mgr.	Lionel Chapman	BC 101	2296
Book and Supply Store			
Manager	James C. Sampson	Anderson Bsmt.	2660
Asst. Manager	Richard A. Lyons	Anderson Bsmt.	2660
Book Dept. Manager	William Smith	Anderson Bsmt.	2665
Supply Dept. Manager	Anne Harter	Anderson Bsmt.	2662
Broadcast Center			
Director	Alex Hendrickson	BC 102	2696
Budget Office			
Director	Joseph E. Hampton	Asbury 302	2272
Budget Officer	Elizabeth Perry	Asbury 302	2272
Business Council for International Understanding (BCIU)			
Director	Gary E. Lloyd	5010 Wisc. Ave.	2771, 338-7600
Asst. to the Director	Nancy W. Redick	5010 Wisc. Ave.	2771, 338-7600
Business Office			
Business Manager	Donald E. Dedrick	Osborn	2300
Computer Services			
Director	Robert G. Ogilvie	MGC 231	2277
Program Manager for Administrative			
Data Processing	Dorothy Showalter	5010 Wisc. Ave.	2790
Coordinator of Academic			
Computer Services	Arthur Fiser	MGC 231	2553
Director of Systems Development	Wallace C. Knapp	MGC 231	2785
Manager of Computer Operations	Larry Sharp	5010 Wisc. Ave.	2793
Cooperative Education Office			
Director	Eva K. Kanter	MGC 218	3857
Controller's Office (See Treasurer's Office)			
Copy Center (See Printing Service, University)			
Development and University Relations Office			
Vice President	William F. Ahlstrom	5010 Wisc. Ave.	2800
Asst. Vice President	Irving A. Spalding, Jr.	5010 Wisc. Ave.	2806
Director of Development	James P. Seymour	5010 Wisc. Ave.	2800
Assoc. Director, Major Gifts	Nancy P. Tilton	5010 Wisc. Ave.	2800
Asst. Director	Albert F. Todres	5010 Wisc. Ave.	2800
Asst. Director, Annual Giving	Dominick DiJulia	5010 Wisc. Ave.	2800
Director of Public Information	Cynthia K. Moran	5010 Wisc. Ave.	2100
Asst. Director of Public Information	Ann Stevens	5010 Wisc. Ave.	2100
Editor, <i>REPORTER</i>	Judy Cook	5010 Wisc. Ave.	2100
Writer/Editor	Sue Trbovich	5010 Wisc. Ave.	2100
Editor, University Publications	John R. Reynolds	Letts Bsmt.	2095
Asst. Editor, University Publications	Nell J. Jackson	Letts Bsmt.	2095
Director of Radio/TV Programming	Lillian Brown	5010 Wisc. Ave.	2806
Director of Alumni Relations	John T. Hohman	5010 Wisc. Ave.	2085
Asst. Director, Alumni Relations	Richard Tomford	5010 Wisc. Ave.	2085
Supervisor, Alumni/Development			
Record Systems	Meredith Wood	5010 Wisc. Ave.	2085
Faculties, Office of			
Vice President for Academic Affairs	Nathaniel S. Preston	Pres. Bldg.	2124
Dean for Faculty Affairs		Asbury 303	2225
Faculty Records Coordinator	Kathleen Kolm	Asbury 300	2225
Faculty Relations, Committee on			
Chairman	Charles K. Wilber	Gray 202	2447
Secretary	Wilda Bennett	Gray 202	2447
Foreign Area Studies (FAS)			
Director	Richard H. Moore	5010 Wisc. Ave.	2765
Asst. Director	William Evans-Smith	5010 Wisc. Ave.	2768

Frederick Douglass Scholarship Program

Director	Lewis E. Hudnell	Gray 125	2528
Academic Asst. to the Director	Nathaniel Davis	Gray 205	2138

Institutional Studies Office

Director	Lois E. Torrence	Asbury 314	2275
Coordinator of Statistical Information	Martha V. Short	Asbury 312	2275
Coordinator for Management and Planning Systems	Alkistis Leonhart	Asbury 318	2275

Language Learning Center (Lab.)

Director	W. Geoffrey Seeley	Asbury 4	2284
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Library Campaign

Director	James P. Seymour	5010 Wisc. Ave.	2800
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Library, Law

Reference and Circulation Information		Myers, lower level	2625
Law Librarian	Patrick E. Kehoe	Myers, lower level	2625

Library, University

Reference Information			2325
Circulation Information			2320/2321
University Librarian	Donald D. Dennis	Battelle	2323
Asst. University Librarian	Patricia Stockton	Battelle	2323
University Archives, (See Archives)			
Head, Acquisitions	George D. Arnold	Battelle	2328
Head, Cataloguing	Sally-Jo Reynolds	Battelle	2327
Head, Catalogue Maintenance	Alice Moeser	Battelle	2318
Head, Circulation	Valerie Pisciotta	Battelle	2321
Head, Periodicals	Mary L. Spiess	Battelle	2322
Head, Reference	H. Kay Schmidt	Battelle	2325
Head, Special Collections	Yong Sun Chung	Battelle	2326

Loan Office, Student

Manager	Sharen Frady	Leon. Ctr. 108	2556
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Lost and Found

Manager	Anthony Muscia	Letts Bsmt.	2307
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Mail Service

Manager	M. B. Foster	Leon. Annex.	2575
Bulk Mail (2nd and 3rd class)		Letts Bsmt.	2250

News Bureau

Director of Public Information	Cynthia K. Moran	5010 Wisc. Ave.	2100
Asst. Director of Public Information	Ann Stevens	5010 Wisc. Ave.	2100
Editor, <i>REPORTER</i>	Judy Cook	5010 Wisc. Ave.	2100
Writer/Editor	Sue Trbovich	5010 Wisc. Ave.	2100

Payroll Office

Supervisor	Donald Friert	Leon. Ctr. 203	2588
Asst. Supervisor	Betty Morse	Leon. Ctr. 203	2588

Performing Arts, Dept. of

Chairman	Charles W. Crowder	McCabe 107	2315
Director of Dance	Naima W. Prevots	McCabe 107	2315
Director of Theatre	Elizabeth M. Daley	McCabe 107	2315
Business Manager	Starlyn Bolyard	McCabe 107	2315
Box Office		McCabe 107	2317

Personnel Services Office

Director	John D. Schiavone	Leon. Ctr. 200	2591
Asst. to the Director	Gail Watters	Leon. Ctr. 200	2591
Personnel Interviewer	Peggy Hansen	Leon. Ctr. 200	2591

Physical Plant

Director	Ralph E. Dunn	Osborn	2300
Asst. Director	Clyde H. Glenn	Osborn	2300
Asst. to the Director	Samuel D. Olmstead	Osborn	2300
Superintendent of Building Services	Anthony Muscia	Letts Bsmt.	2307
Maintenance Superintendent	Joseph L. Pellegrino	Maint. Shop	2304
Grounds Superintendent	Robert Griffin	Osborn	2309

Security Officer	Charles Adkins	McKinley 3	2525
Supervisor of Mechanical Services	Donald D. McFaden	Heating Plt.	2308
Chief Engineer	George G. Cook	Heating Plt.	2308
Asst. Chief Engineer	Richard Chamblin	Heating Plt.	2308

President's Office

Asst. to the President	Agatha Sigmond	Pres. 23	2134
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Printing Service, University

Coordinator of Printing	John Ferguson	Lets Bsmt.	2249
Asst. Coordinator of Printing		Letts Bsmt.	
Typesetting Services	Steve Horrocks	Letts Bsmt.	2098
Xerox Center Manager	Michael Gibson	Letts Bsmt.	2248

Publications, University

Editor	John R. Reynolds	Letts Bsmt.	2095
Asst. Editor	Nell J. Jackson	Letts Bsmt.	2095

Purchasing Office**Director of General Services**

and Purchasing Agent	Alf. J. Horrocks	Letts Bsmt.	2252
Asst. Director of General Services	John Ferguson	Letts Bsmt.	2249
Asst. to the Purchasing Agent	Hank Holbrook	Letts Bsmt.	2244
Asst. to the Purchasing Agent	Dortha M. Nash	Letts Bsmt.	2244
Coordinator of Printing Services	John Ferguson	Letts Bsmt.	2249
Bulk Mail (2nd and 3rd class)		Letts Bsmt.	
Stockroom Manager	James Dowd	Letts Bsmt.	2247

Registrar, University

Registrar	Robert Gebhardtsbauer	Asbury 204	2208
Assoc. Registrar	Grace M. Anthony	Asbury 206	2208
Asst. Registrar	Michael I. Roehm	Asbury 201	2209
Asst. Registrar	Calvin E. Newman	Asbury 212	2210
Office Manager	Florence Apperson	Asbury 200	2200
Room Schedules Coordinator	Janice Dodge	Asbury 214	2210

Senate, University

Chairperson	Anthony C. Morella	Pres. Bldg.	2132
Vice Chairperson	Ruth H. Landman	Hurst 11	2182
Secretary	Donald R. Thomas	Roper 100	2186
Staff Asst.	Ruth Brown	MGC 231K	2227

Student Accounts, Office of

Asst. Controller	Charles W. Bray	5010 Wisc. Ave.	2700
Manager of Student Accounts	Steven Wilson	Leon. Ctr. 110	2580
Head Cashier	Dorothy Hayman	Leon. Ctr. 110	2580
Collection Officer	Doug Selby	Leon. Ctr. 108	2587

Student Life, Division of

Vice President for Student Life	Lenora Cole	MGC 220	2081
Asst. to the Vice President	Philip Henry	MGC 220	2725
Asst. to the Vice President	Charles H. Mays	MGC 220	2725
Dean for Student Development		MGC 220	
Asst. to the Dean			
for Student Development	Julia E. Billings	MGC 218	2080

Career Development Center (Placement)

Director	David Meredith	MGC 224	2068
Asst. Director	David Karlson	MGC 224	2068

Chaplains

University Chaplain	Rev. R. Bruce Poynter	Kay	2392
Methodist Chaplain and			
Coordinator of Religious Affairs	Rev. Joe S. Rainey	Kay	2388
Catholic Chaplain	Fr. Paul F. Liston	Kay	2389
Asst. Coordinator and			
Episcopal Chaplain	Lee McGee	Kay	2385
Greek Eastern Orthodox Chaplain	Paul Economides	Kay	2391
Jewish Chaplain and Hillel Director	Rabbi Harold White	Kay	2390

Lutheran Chaplain	Rev. Walter Scarvie	Kay	2387
Presbyterian Chaplain	Rev. Tom Luce	Kay	2391
Counseling Center			
Director	Dr. Allan Leventhal	MGC 201	2050
Counseling and Testing		MGC 201	2050
P.E.A.C.E. Program		MGC 201	3895
Dining Services Office			
Director	Bill Cross	MGC lower level	2064
Manager University Dining Room, A la Carte, Snack Bar	John Sabatini	MGC 1st flr	2064
Special Events		MGC 1st flr	2064
Contract Manager	Lolita Buss, R.D.	MGC	2064
Foreign Student Office			
Director, International Student and Faculty Exchange	Joseph Neale	MGC 221	2079
Health Center			
Medical Coordinator	Bernardo Kotelanski, M.D.	McDowell	2595
Health Services Coordinator and Head Nurse	Beatric Hardy, R.N.	McDowell	2595
Asst. Head Nurse	Constance Thom, R.N.	McDowell	2595
Residential Life, Office of			
Director		McDowell 4	2636
Acting Director	David Hager	McDowell 5	2634
Office of Program Development			
Director	John H. Diamond	MGC 216	
Asst. Director	Mildred Ryan	MGC 216	2072
Coordinator of Student Communications	Jo Williams	MGC 214	2056/2073
University Judicial System			MGC 219 2725
Summer and Special Sessions			
Director	Frank J. Barros	Asbury 308	2697
Administrative Asst.	Ardyce E. Harrison	Asbury 308	2697
Theatre (See Performing Arts, Dept. of)			
Treasurer and Controller's Office			
Treasurer	John M. McKinley	5010 Wisc. Ave.	2700
Asst. General Counsel	Hugh McCaffrey	5010 Wisc. Ave.	2700
Asst. to the Treasurer	Donald L. Myers	5010 Wisc. Ave.	2700
Controller	Benjamin G. Stauss	5010 Wisc. Ave.	2700
Asst. Controller	George J. Fey, Jr.	5010 Wisc. Ave.	2700
Asst. Controller	Charles W. Bray	5010 Wisc. Ave.	2700
WAMU-FM (88.5 mc)			
Station Manager	Susan Harmon	BC	2690
Program Director	William Brown	BC	2690
Chief Engineer	David Garner	BC	2690
Recording Engineer	Ken Brown	BC	2690
Business Secretary	Drusilla Campbell	BC	2690
Wolf Trap Academy for the Performing Arts			
Office Manager	Jeanne Lanni	McCabe 111	2448
World Population Society			
President	Charles M. Cargille	Hurst 206 E	3863
Corresponding Secretary	Ambassador Elbert G.	Hurst 206 E	3863
	Mathews		
Treasurer	Darrell Randall	Hurst 212	2174

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